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January 1995

P-644

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

(NASA-SP-7039(46)-SECT-2) NASA
PATENT ABSTRACTS BIBLIOGRAPHY: A
CONTINUING BIBLIOGRAPHY: SECTION 2:
INDEXES (SUPPLEMENT 46) (NASA)
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Space Administration

Scientific and Technical
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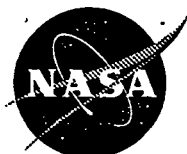
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NASA PATENT ABSTRACTS BIBLIOGRAPHY

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National Aeronautics and Space Administration
Scientific and Technical Information Office
Washington, DC

1995

This publication was prepared by the NASA Center for AeroSpace Information, 800 Elkridge Landing Road, Linthicum Heights, MD 21090-2934, (301) 621-0390.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 108 citations published in this issue of the Abstract Section cover the period July 1994 through December 1994. The Index Section references over 5600 citations covering the period May 1969 through December 1994.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside back cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

Subject Categories

(1969-1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery. For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents. For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control. For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology. For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments. For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft. For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands. For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques. For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry, space communications networks; astronavigation and guidance; and radio blackout. For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources. For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry. For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials. For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application. For biological materials see *55 Space Biology*.

ENGINEERING

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications. For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety* and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry. For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling. For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography. For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers. For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography. For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing. For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS For related information see also *Engineering*.**70 PHYSICS (GENERAL)**

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation. For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory. For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices. For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion. For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity. For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES**80 SOCIAL SCIENCES (GENERAL)**

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation. For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust. For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSIC

Includes solar activity, solar flares, solar radiation and sunspots. For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

Section 2 • Indexes

SUBJECT INDEX.....	A-1
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TYPICAL CITATION AND ABSTRACT

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ACCESSION NUMBER → N94-29363*# National Aeronautics and Space Administration. ← CORPORATE SOURCE

TITLE → IMPROVED IN-FLOW ACOUSTIC SENSOR Patent Application

INVENTOR → CHRISTOPHER S. ALLEN, inventor (to NASA) (Sterling Software, Inc., Moffett Field, CA.) 10 Nov. 1993 22 p (Contract NAS2-13210)

CONTRACT NUMBER → (Contract NAS2-13210)

NASA CASE NUMBER AND US PATENT APPLICATION SERIAL NUMBER → (NASA-CASE-ARC-12001-1; NAS 1.71:ARC-12001-1; US-PATENT-APPL-SN-149896) Avail: CASI HC A03/MF A01 ← AVAILABILITY SOURCE

An acoustic sensor for measuring acoustic waves contained in fluid flowing over the sensor is described. The acoustic sensor reduces any unwanted self-noise associated with the flowing fluid by providing a nose cone having proper aerodynamic properties and by positioning the diaphragm of a microphone of the sensor at a location where any unwanted noise is at a relatively low level. The nose cone has a rounded, blunt or even sharp tip, neither of which creates any major disturbances in the flowing fluid which it intercepts.

← ABSTRACT

NASA

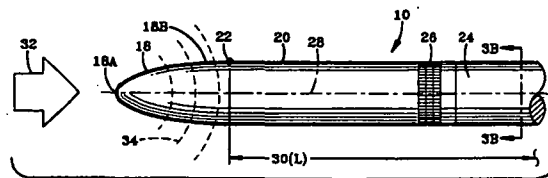
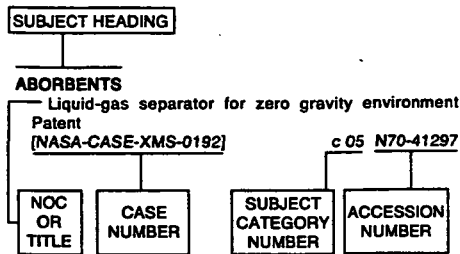


FIG-3A

← KEY ILLUSTRATION

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or notation of content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The case number serves as the prime access number to the patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The accession number denotes the number by which the citation is identified within the subject category.

A

ABERRATION

- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
- Aberration correction of unstable resonators
[NASA-CASE-NPO-18662-1-CU] c 74 N93-28426
- Aberration correction of unstable resonators
[NASA-CASE-NPO-18791-1-CU] c 35 N94-15987

ABILITIES

- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

ABLATION

- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
- Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N93-29088

ABLATIVE MATERIALS

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Method for molding compounds Patent
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- Ablation article and method
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- Dual measurement ablation sensor
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- Noncontaminating swabs
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Cooling system for high speed aircraft
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[NASA-CASE-LAR-12275-1] c 35 N79-18296

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[NASA-CASE-FRC-11009-1] c 06 N80-18036

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

ALBUMINS

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

Amino acid sequences for the binding regions in serum albumin proteins
[NASA-CASE-MFS-28402-1] c 51 N93-28952

ALCOHOLS

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

ALIGNMENT

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALERTNESS

Method of encouraging attention by correlating video game difficulty with attention level
[NASA-CASE-LAR-15022-1] c 53 N93-28128

ALGEBRA

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N94-29465

ALGORITHMS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951

Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882

Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052

Neural network for processing both spatial and temporal data with time based back-propagation
[NASA-CASE-MS-C-21874-1] c 63 N94-20366

ALIGNMENT

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axis systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

Spacecraft docking and alignment system — using television camera system
[NASA-CASE-MS-C-12559-1] c 18 N76-14186

Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

X-ray determination of parts alignment
[NASA-CASE-MS-C-20418-1] c 74 N86-20126

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- Three dimensional moiré pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- ALKALI HALIDES**
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALI METALS**
- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- AMTEC vapor-vapor series connected cells
[NASA-CASE-NPO-18667-1-CU] c 33 N93-19330
- Ion exchange polymers and method for making
[NASA-CASE-LEW-15576-1] c 27 N93-31316
- Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N94-10657
- ALKALINE BATTERIES**
- Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

- Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- ALKALINE EARTH METALS**
- Ion exchange polymers and method for making
[NASA-CASE-LEW-15576-1] c 27 N93-31316
- ALKALINE EARTH OXIDES**
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- ALKYL COMPOUNDS**
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
- Substituted 1,1,1-triaryl 2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-7] c 23 N93-17412
- ALKYNES**
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- ALLOYING**
- High temperature creep and oxidation resistant chromium silicide matrix alloy containing molybdenum
[NASA-CASE-LEW-15697-1] c 26 N94-36275
- ALLOYS**
- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239
- ALPHA PARTICLES**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- ALPHANUMERIC CHARACTERS**
- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- ALTERNATING CURRENT**
- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23989-1] c 33 N81-27395
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- ALTIMETERS**
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- ALTITUDE**
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- ALTITUDE CONTROL**
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- ALUMINIDES**
- Fusion welding with self-generated filler metal
[NASA-CASE-LEW-15671-1] c 37 N94-29557
- ALUMINUM**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of fluidless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 26 N81-15119
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- Production of multilayer fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
- Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N93-24596
- ALUMINUM ALLOYS**
- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- High temperature, oxidation resistant noble metal-Al alloy thermocouple
[NASA-CASE-LEW-15515-1] c 35 N94-23826
- Al-Al base composite containing high volume fraction of AlN for advanced engines
[NASA-CASE-LEW-15818-1] c 24 N94-36752
- ALUMINUM ARSENIDES**
- InP solar cell with window layer
[NASA-CASE-LEW-15606-1] c 44 N94-35230

ALUMINUM COATINGS

- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- Method of protecting the surface of a substrate — by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
- Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Silicon-slurry/aluminide coating — protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Composite flexible blanket insulation
[NASA-CASE-ARC-11955-1-CU] c 24 N94-29509

ALUMINUM COMPOUNDS

- Synthesis of dawsonites — for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- Production of multilite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

ALUMINUM GALLIUM ARSENIDES

- Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N94-23821

ALUMINUM OXIDES

- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543
- Method of producing a silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-2] c 24 N94-15929
- Thin composite solid electrolyte film for lithium batteries
[NASA-CASE-NPO-18694-1-CU] c 33 N94-17325
- Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N94-20195

ALUMINUM SILICATES

- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- Fiber-reinforced monoclinic celsian matrix composite material
[NASA-CASE-LEW-15269-1] c 24 N93-20040

AMBIENT TEMPERATURE

- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505

AMBIGUITY

- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
- Method for ambiguity resolution in range-Doppler measurements
[NASA-CASE-GSC-13542-1] c 32 N94-29739

AMIDES

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES

- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Amine terminated bispartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1] c 27 N93-25997

AMINO ACIDS

- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Amino acid sequences for the binding regions in serum albumin proteins
[NASA-CASE-MFS-28402-1] c 51 N93-28952

AMMONIA

- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
- Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505

AMORPHOUS SILICON

- Diamond composite films for protective coatings on metals and method of formation
[NASA-CASE-NPO-18501-1-CU] c 27 N93-28426

AMPLIFICATION

- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- High power metallic halide laser — amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS

- Stable amplifier having a stable quiescent point Patent
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Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

ATMOSPHERIC ATTENUATION
Tunable CW diode-pumped Tm,Ho:YLF laser operating at or near room temperature
[NASA-CASE-NPO-18611-1-CU] c 36 N93-30415

ATMOSPHERIC CHEMISTRY
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

ATMOSPHERIC COMPOSITION
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

ATMOSPHERIC ENTRY
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

Orbital and entry tracking accessory for globes — to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

ATMOSPHERIC PHYSICS
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-2] c 35 N93-17626
Plasma heating for containerless and microgravity materials processing
[NASA-CASE-NPO-18819-1-CU] c 29 N94-29371

ATMOSPHERIC RADIATION
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Micro pulse laser radar
[NASA-CASE-GSC-13493-1] c 32 N94-23827

ATMOSPHERIC SOUNDING
Microwave limb sounder — measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Electron reversal ionizer for detection of trace species using a spherical cathode
[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329

ATMOSPHERIC TEMPERATURE
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC TURBULENCE
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC BEAMS
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
Method and apparatus for producing a thermal atomic oxygen beam
[NASA-CASE-LEW-15614-1] c 72 N94-23825

ATOMIC EXCITATIONS
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

ATOMIC STRUCTURE
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

ATOMIZERS
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer — Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

ATS
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENTION
Method of encouraging attention by correlating video game difficulty with attention level
[NASA-CASE-LAR-15022-1] c 53 N93-28128

ATTENUATORS

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Rocket engine nozzle attenuator
[NASA-CASE-MFS-28739-1] c 20 N93-28324
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N94-10673

ATTITUDE (INCLINATION)

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02877] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor — circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

ATTITUDE GYROS

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

ATTITUDE INDICATORS

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421
Multi-channel spatialization systems for audio signals
[NASA-CASE-ARC-12013-1-CU] c 32 N94-29364

AUDIO FREQUENCIES

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

AUDIO SIGNALS

Method and apparatus for operating on compressed PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
Multi-channel spatialization systems for audio signals
[NASA-CASE-ARC-12013-1-CU] c 32 N94-29364

AUDITORY DEFECTS

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

AUDITORY PERCEPTION

Auditory display for the blind
[NASA-CASE-HON-10832-1] c 71 N74-21014

AUDITORY SIGNALS

Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Head related transfer function pseudo-stereophony
[NASA-CASE-ARC-11919-1-NP] c 71 N94-23312

AUDITORY STIMULI

Auditory display for the blind
[NASA-CASE-HON-10832-1] c 71 N74-21014

AUGER EFFECT

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITE

Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423

AUSTENITIC STAINLESS STEELS

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES

System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

AUTOMATIC CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Traffic survey system — using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system — temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Automatic thermal switch — spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Spline screw autochanger
[NASA-CASE-GSC-13435-1] c 37 N93-29505
Welding wire pressure sensor assembly
[NASA-CASE-MFS-26216-1-SB] c 37 N94-29506
Adjustable control station with movable monitors and cameras for viewing systems in robotics and telecommunications
[NASA-CASE-NPO-17837-1-CU] c 74 N94-35384

AUTOMATIC CONTROL VALVES
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC TEST EQUIPMENT
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N93-18282

AUTOMOBILE ENGINES
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION

Autonomous navigation system — gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
Global Positioning System Synchronized Active Light Autonomous Docking System
[NASA-CASE-MFS-28853-1] c 18 N94-36825

AUTONOMY
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750

AUXILIARY POWER SOURCES
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Preload release mechanism
[NASA-CASE-MSC-22327-1] c 37 N94-36839

AXES (REFERENCE LINES)
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

AXIAL COMPRESSION LOADS
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

AXIAL FLOW TURBINES
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

AXIAL LOADS
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

AXIAL STRESS
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Method for measuring biaxial stress in a body subjected to stress inducing loads
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[NASA-CASE-MFS-14017] c 14 N71-26627
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- Magnetic heading reference
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- Azine polymers and process for preparing the same
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[NASA-CASE-LEW-12053-2] c 27 N79-28307
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[NASA-CASE-ARC-11241-1] c 25 N81-14016
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- Spine immobilization apparatus
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- Electronic background suppression method and apparatus for a field scanning sensor
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- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
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- Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors
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[NASA-CASE-LAR-11155-1] c 35 N74-15091
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- Flexible back-up bar Patent
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[NASA-CASE-LEW-13736-1] c 33 N84-27974

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- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
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[NASA-CASE-GSC-11092-2] c 04 N73-27052
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[NASA-CASE-LAR-10544-1] c 37 N74-13178
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- Rapid, quantitative determination of bacteria in water — adenosine triphosphate
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- Bacteria detection instrument and method
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[NASA-CASE-XNP-03930] c 14 N69-24331
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[NASA-CASE-LAR-10317-1] c 32 N71-16103
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[NASA-CASE-MFS-23513-1] c 74 N79-11865
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- Bakeable McLeod gauge
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[NASA-CASE-MSC-18934-3] c 24 N82-26387

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[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
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- Automatic balancing device Patent
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[NASA-CASE-NPO-10808] c 15 N71-27432
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[NASA-CASE-LEW-11087-1] c 15 N73-30458
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[NASA-CASE-LEW-11087-3] c 37 N74-21064
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[NASA-CASE-MFS-23447-1] c 37 N79-11404
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[NASA-CASE-MFS-25833-1] c 35 N86-32698
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[NASA-CASE-LEW-14776-1] c 37 N91-21540
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- Ballast system for maintaining constant pressure in a glove box
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[NASA-CASE-XGS-05003] c 09 N69-24318
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[NASA-CASE-MSC-18407-1] c 33 N82-24427

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- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

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- Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

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- Rotating unbalanced-mass devices and methods for scanning balloon-borne experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

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- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
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[NASA-CASE-XGS-03351] c 31 N71-16081
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[NASA-CASE-GSC-11077-1] c 02 N73-13008

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- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
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[NASA-CASE-GSC-13161-1] c 37 N92-33634

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- Helical coaxial resonator RF filter
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[NASA-CASE-XNP-01107] c 10 N71-28859
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[NASA-CASE-GSC-11239-1] c 10 N73-25241
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[NASA-CASE-GSC-10990-1] c 09 N73-26195
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- Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
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[NASA-CASE-LAR-10970-1] c 33 N76-14372
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[NASA-CASE-NPO-13801-1] c 36 N78-18410
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- Barium release system
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- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
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[NASA-CASE-LEW-15269-1] c 24 N93-20040

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- Method of making self lubricating fluoride-metal composite materials Patent
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[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

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[NASA-CASE-ERC-10307] c 08 N72-21198

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[NASA-CASE-NPO-13689-2] c 44 N81-29525

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An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

Multi-layer light-weight protective coating and method for application
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Planar varactor frequency multiplier devices with blocking barrier
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[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501

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[NASA-CASE-XGS-05434] c 03 N71-20491

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

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[NASA-CASE-MFS-19259-1] c 36 N78-14380

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Collimated beam manifold with the number of output beams variable at a given output angle
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[NASA-CASE-XGS-01451] c 09 N71-10677

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[NASA-CASE-GSC-10220-1] c 07 N71-27233

Dish antenna having switchable beamwidth — with truncated concave ellipsoid subreflector
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Single frequency, two feed dish antenna having switchable beamwidth
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Optical frequency waveguide and transmission system
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[NASA-CASE-GSC-12365-1] c 32 N80-28578

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Off-axis coherently pumped laser
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Sequentially deployable maneuverable tetrahedral beam
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Mobile remote manipulator system for a tetrahedral truss
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Wind tunnel balance
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Synchronously deployable double fold beam and planar truss structure
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Emitted vibration measurement device and method
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Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Direction sensitive laser velocimeter — determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
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Device for measuring bearing preload
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Magnetic bearing — for supplying magnetic fluxes
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Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

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[NASA-CASE-LEW-12527-1] c 37 N77-32500

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Portable 90 degree proof loading device
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[NASA-CASE-XFR-00811] c 15 N70-36901

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A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

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Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

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Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Internally supported flexible duct joint — device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

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- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Automatic locking orthotic knee device
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[NASA-CASE-XAC-05506-1] c 24 N71-16095

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- Viscous pendulum damper Patent
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- Polymer of phosphorylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diamino benzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- The 1-(diorganooxyphosphonyl)-methyl-2,4- and -2,6-diamino benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
- Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
- Polyimides containing the penta fluoro sulfonyl benzene moiety
[NASA-CASE-LAR-15082-1] c 23 N94-29554

BERYLLIUM ALLOYS

- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES

- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIAS

- Full complex modulation using two one-parameter spatial light modulators
[NASA-CASE-MSC-22255-1] c 74 N93-28135

BIDIRECTIONAL REFLECTANCE

- A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

BIMETALS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Bimetallic fluid displacement apparatus — for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES

- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16481-1] c 33 N79-11313

BINARY DATA

- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- Modulator for tone and binary signals — phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- Unipolar terminal-attractor based neural associative memory with adaptive threshold
[NASA-CASE-NPO-18790-1-CU] c 63 N94-15958

BINARY DIGITS

- Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
- Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
- Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

BINARY FLUIDS

- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

BINARY TO DECIMAL CONVERTERS

- Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINAURAL HEARING

- Leak detection utilizing analog binaural (VLSI) techniques
[NASA-CASE-NPO-18399-1-CU] c 33 N94-17323

BINDERS (MATERIALS)

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400

Brazing alloy binder

- [NASA-CASE-XMF-05868] c 26 N75-27125
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
- Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
- Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-2] c 27 N93-28423
- Thin composite solid electrolyte film for lithium batteries
[NASA-CASE-NPO-18694-1-CU] c 33 N94-17325
- Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N94-20195

BINOCULARS

- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

BIOASSAY

- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

BIODEGRADATION

- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

BIODYNAMICS

- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

BIOELECTRIC POTENTIAL

- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

BIOELECTRICITY

- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

BIOENGINEERING

- Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Bio-medical flow sensor — intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

BIOINSTRUMENTATION

- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Ultrasonic biomedical measuring and recording apparatus — for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- BIOLOGICAL EFFECTS**
- Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
- Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
- Kinetic tetrazolium microtiter assay
[NASA-CASE-MSC-21979-1] c 51 N93-17049
- Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- BIOLUMINESCENCE**
- Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
- Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- BIOLOGICAL DATA**
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- BIOMETRICS**
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Ultrasonic biomedical measuring and recording apparatus — for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- Rapid quantification of an internal property — ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- BIOPROCESSING**
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- BIOREACTORS**
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052
- Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
- High aspect reactor vessel and method of use
[NASA-CASE-MSC-21662-1] c 51 N92-34232
- Method for culturing mammalian cells in a perfused bioreactor
[NASA-CASE-MSC-21293-2] c 51 N93-10109
- Method for culturing mammalian cells in a horizontally rotated bioreactor
[NASA-CASE-MSC-21294-2] c 51 N93-10110
- Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1-SB] c 25 N93-22036
- High density cell culture system
[NASA-CASE-MSC-22060-1] c 51 N94-35366
- BIOTECHNOLOGY**
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- Three dimensional optic tissue culture and process
[NASA-CASE-MSC-22368-1] c 51 N94-36765
- BIOTELEMETRY**
- Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- BIPOLAR TRANSISTORS**
- Voltage regulator for battery power source — using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
- Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
- BIPOLARITY**
- Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
- GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N93-24599
- BIREFRINGENCE**
- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290
- BIREFRINGENT FILTERS**
- Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BISMALEIMIDE

- Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
- Bis (4-(3,4-dimethylene-pyrrolyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- Polyimide from bis(n-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-2-CU] c 27 N93-22033
- BISMUTH**
- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N94-10657
- BISMUTH COMPOUNDS**
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- BISPHENOLS**
- Phenylene ether-co-imidazole)s as toughness modifiers for epoxy resins
[NASA-CASE-LAR-15229-1-CU] c 27 N94-29451
- BISTABLE CIRCUITS**
- AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
- BIT SYNCHRONIZATION**
- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
- Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
- Method and apparatus for a single channel digital communications system — synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
- BITERNARY CODE**
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- BITS**
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- BITUMENS**
- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- BLACK BODY RADIATION**
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- BLADDER**
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Rapid quantification of an internal property — ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- BLADE SLAP NOISE**
- Forward sweep, low noise rotor blade
[NASA-CASE-LAR-14569-1] c 05 N94-36767
- BLADE TIPS**
- Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- BLADE-VORTEX INTERACTION**
- Forward sweep, low noise rotor blade
[NASA-CASE-LAR-14569-1] c 05 N94-36767

BLADES

Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)

Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOCK COPOLYMERS

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

BLOOD

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Dialysis system — using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
Method and apparatus for the collection, storage, and real time analysis of blood and other bodily fluids
[NASA-CASE-MSC-22463-1] c 52 N94-36766

BLOOD FLOW

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkov sounds — for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and diastolic notch — for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD PUMPS

Rotary blood pump
[NASA-CASE-MSC-22424-1] c 37 N94-29370

BLOOD VESSELS

Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS

Programmable physiological infusion
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- Digital phase-locked loop
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- Lead-oxygen dc power supply system having a closed loop oxygen and water system
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- Space vehicle with artificial gravity and earth-like environment
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- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
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- Oxidation resistant overlay coatings for low expansion substrates
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- Polymer-coated surfaces to control surface zeta potential
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- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
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- Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
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- High temperature cobalt-base alloy Patent
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- High temperature ferromagnetic cobalt-base alloy Patent
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- Method of intercalating large quantities of fibrous structures
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- Fabrication of nanometer single crystal metallic CoSi2 structures on Si
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- High contrast cathode ray tube
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- Controlled visibility device for an aircraft Patent
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- Aircraft canopy lock
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- Encoder/decoder system for a rapidly synchronizable binary code Patent
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- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Method and apparatus for decoding compatible convolutional codes
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- Digital plus analog output encoder
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- Twin-capacitive shaft angle encoder with analog output signal
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- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
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- Electrostatically suspended rotor for angular encoder
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- Laser optical disk position encoder with active heads
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- Picture data compression code using subband/transform coding with a Lempel-Ziv-based coder
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- Multi-speed multi-phase resolver converter
[NASA-CASE-MFS-28855-1] c 33 N94-29372
- Non-orthogonal subband/transform coder
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- Error correcting method and apparatus Patent
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- Rate data encoder
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- Laser optical disk position encoder with active heads
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- Picture data compression code using subband/transform coding with a Lempel-Ziv-based coder
[NASA-CASE-LEW-15700-1] c 82 N93-28130
- Rotary encoding device
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- Rotary encoding device using polygonal mirror with diffraction gratings on each facet
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- Static coefficient test method and apparatus
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- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

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- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

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- Folded traveling wave maser structure Patent
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- Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Off-axis coherently pumped laser
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- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
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COHERENT RADIATION

- Laser communication system for controlling several functions at a location remote to the laser
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- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
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- Optically detonated explosive device
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- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
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- Frequency measurement by coincidence detection with standard frequency
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- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING

- Method of cold welding using ion beam technology
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COLD WORKING

- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

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- Collapsible pistons
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- Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- Absorbent product to absorb fluids — for collection of human wastes
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- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

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- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Optical alignment device
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- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Method for shaping and aiming narrow beams — sonar mapping and target identification
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- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Ion beam accelerator system
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- Collimator of multiple plates with axially aligned identical random arrays of apertures
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- Multiplate focusing collimator — for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
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[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Multiprism collimator
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- Gamma ray collimator
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- Satellite aided vehicle avoidance system Patent
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- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132

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[NASA-CASE-LAR-13662-1] c 37 N88-14359

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- Colloid propulsion method and apparatus Patent
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- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

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- Enhanced single layer multi-color or luminescent display with coactivators
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- Single layer multi-color luminescent display
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- Single layer multi-color luminescent display and method of making
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- A method of making a single layer multi-color luminescent display
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- Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
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- Color television systems using a single gun color cathode ray tube Patent
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- Color television system
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- Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- Full color hybrid display for aircraft simulators — landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Display system employing acousto-optic tunable filter
[NASA-CASE-NPO-18736-1-CU] c 74 N94-15933

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- Color perception tester
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- Lightweight structural columns — space erectable trusses
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- Telescoping columns — parabolic antenna support
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- Apparatus for computing square roots Patent
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- Liquid hydrogen polygeneration system and process
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- A system for controlling the oxygen content of a gas produced by combustion
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- Protective helmet assembly
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- An emergency response mobile robot for operations in combustible atmospheres
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- Catalytic ignitor for regenerative propellant gun
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- Rocket chamber leak test fixture
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- Rocket propellant injector Patent
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- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Ignition system for monopropellant combustion devices Patent
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- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
- Swirl can primary combustor
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- Method of electroforming a rocket chamber
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- Controlled separation combustor — airflow distribution in gas turbine engines
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- Fuel combustor
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- Direct heating surface combustor
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- Combustor — low nitrogen oxide formation
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- Heat exchanger — rocket combustion chambers and cooling systems
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- General purpose rocket furnace
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- Reduction of nitric oxide emissions from a combustor
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- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Micronized coal burner facility
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- Heat pipes to reduce engine exhaust emissions
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- A system for controlling the oxygen content of a gas produced by combustion
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- Diesel engine catalytic combustor system — aircraft engines
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- Low loss injector for liquid propellant rocket engines
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- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

COMPUTER NETWORKS

- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- Common data buffer system — communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
- Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
- Unipolar terminal-attractor based neural associative memory with adaptive threshold
[NASA-CASE-NPO-18790-1-CU] c 63 N94-15958
- A neural network with modular hierarchical learning
[NASA-CASE-NPO-19077-1-CU] c 63 N94-29492

COMPUTER PROGRAMMING

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Priority interrupt system — comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
- System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855
- Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N93-20116

COMPUTER PROGRAMS

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
- Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
- Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

COMPUTER STORAGE DEVICES

- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
- Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
- Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132
- Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704
- Acceleration recorder and playback module
[NASA-CASE-MSC-22008-1] c 35 N93-17077

COMPUTER SYSTEMS DESIGN

- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
- Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
- Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N93-20116

COMPUTER SYSTEMS PERFORMANCE

- Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

COMPUTER TECHNIQUES

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- Reconfigurable optical interconnections via dynamic computer-generated holograms
[NASA-CASE-NPO-19039-1-CU] c 74 N94-29491
- General purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N94-35501

COMPUTER VISION

- Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
- Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
- Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276
- Adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N94-35384

COMPUTERIZED SIMULATION

- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

CONDUCTING FLUIDS

- Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

COMPUTERS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855
- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N93-22032

CONCAVITY

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS

- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- An improved patch for radiative coolers
[NASA-CASE-GSC-13503-1] c 37 N94-20127

CONCENTRIC CYLINDERS

- Flow resistivity instrument
[NASA-CASE-NPO-13503-1] c 43 N83-29783

CONCENTRIC SPHERES

- Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Method and apparatus for producing gas-filled hollow spheres — target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONCURRENT PROCESSING

- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

CONDENSATES

- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)

- Condenser - Separator
[NASA-CASE-XLA-08845] c 15 N69-21465
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953

CONDUCTING FLUIDS

- Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

Internally supported flexible duct joint — device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTING POLYMERS

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
Method of continuously determining crack length
[NASA-CASE-LAR-14480-1-CU] c 39 N93-29612

CONDUCTION ELECTRONS

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120

CONDUCTIVITY

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

CONDUCTORS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays — from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042
A device for testing cables
[NASA-CASE-LAR-14093-1] c 33 N94-15988

CONES

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFERENCES

Deployable video conference table
[NASA-CASE-ARC-11950-1] c 09 N94-23310

CONFIGURATION MANAGEMENT

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
Kinematic functions for redundancy resolution using configuration control
[NASA-CASE-NPO-18608-1-CU] c 63 N94-29504

CONFINEMENT

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL FLOW

Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

CONICAL SCANNING

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
Conically scanned holographic lidar telescope
[NASA-CASE-GSC-13462-1] c 74 N94-20591

CONICAL SHELLS

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system — insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140
Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423
Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712
Robot-friendly connector — space truss structures
[NASA-CASE-MSC-21864-1] c 37 N93-20117
Connector systems for structures
[NASA-CASE-MSC-21998-1] c 37 N94-15707
A device for testing cables
[NASA-CASE-LAR-14093-1] c 33 N94-15988
Quick connect fastener
[NASA-CASE-MFS-28829-1] c 37 N94-29486

CONSCIOUSNESS

EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY

Constant-output atomizer — Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSOLIDATION

Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

CONSTANTS

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

CONSTRICTIONS

Gas arc constriction for plasma arc welding
[NASA-CASE-MFS-28844-1] c 37 N93-31292

CONSTRUCTION

Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N94-20369

CONSTRUCTION MATERIALS

Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
CONTACT POTENTIALS
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
CONTAINERLESS MELTS
Method of crystallization — in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Plasma heating for containerless and microgravity materials processing
[NASA-CASE-NPO-18819-1-CU] c 29 N94-29371

CONTAINERS

Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

CONTAINMENT

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

CONTAMINANTS

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Spiral fluid separator
[NASA-CASE-MFS-28658-1] c 34 N94-20361
CONTAMINATION
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15822
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
Swept wing attachment line contamination fence
[NASA-CASE-LAR-13400-1] c 02 N93-22015

CONTINUOUS RADIATION

CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument — ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS

High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser — method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

SUBJECT INDEX

CONTROL VALVES

Stark effect spectrophone for continuous absorption spectra monitoring — a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

Tunable CW diode-pumped Tm,Ho:YLF4 laser operating at or near room temperature
[NASA-CASE-NPO-18611-1-CU] c 36 N93-30415

CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

CONTINUUM FLOW
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

CONTOUR SENSORS
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

CONTOURS
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586

Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

CONTROL
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395

Control means for a solid state crossbar switch
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[NASA-CASE-ARC-11921-1] c 34 N94-20371

COORDINATES

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

COPOLYMERIZATION

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Bis (4-(3,4-dimethylene-pyrrolyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

COPOLYMERS

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905

Dicyanocetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-3] c 27 N80-24438

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

COPPER

Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

Method of forming low cost, formable High T(sub c) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

Method of fabricating a rocket engine combustion chamber
[NASA-CASE-MFS-28569-1] c 27 N94-20541

COPPER CHLORIDES

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

COPPER COMPOUNDS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES

Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

CORDAGE

Method of forming a root cord restrained convolute section
[NASA-CASE-MS-C-12398] c 05 N72-20098

CORE STORAGE

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES

Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700

CORK (MATERIALS)

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORNEA

Three dimensional optic tissue culture and process
[NASA-CASE-MS-C-22368-1] c 51 N94-36765

CORRECTION

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N91-21543

CORRELATION

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION

Correlation type phase detector — with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14841-1] c 32 N81-29308

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

CORROSION

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions — by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Method of protecting a surface with a silicon-slurry/aluminate coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025

CORRUGATED PLATES

- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Corrosion resistant thermal barrier coating — protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Carbon granule probe microphone for leak detection — recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

CORRUGATING

- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES

- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST

- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

COST ANALYSIS

- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

COST EFFECTIVENESS

- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

COST REDUCTION

- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

COUCHES

- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS

- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERBALANCES

- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

COUNTERS

- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

- Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

COUNTING CIRCUITS

- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

COUPLERS

- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N94-20365

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- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

COUPLING

- Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

COUPLING CIRCUITS

- Floplop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Automatic quadrature control and measuring system — using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

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- Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490

SUBJECT INDEX

- Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- Refrigerated coaxial coupling — for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Connection system — insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
- Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
- Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120
- Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140
- Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712
- Connector systems for structures
[NASA-CASE-MSC-21998-1] c 37 N94-15707
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N94-20371
- Quick connect fastener
[NASA-CASE-MFS-28829-1] c 37 N94-29486

COVARIANCE

- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

COVERINGS

- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

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- Thrust reverser for a long duct fan engine — for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

CRACK GEOMETRY

- High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329
- Method of continuously determining crack length
[NASA-CASE-LAR-14480-1-CU] c 39 N93-29612

CRACK OPENING DISPLACEMENT

- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

CRACK PROPAGATION

- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329

SUBJECT INDEX

CRACK TIPS

Flux-focusing eddy current probe and method for flaw detection
[NASA-CASE-LAR-15046-1] c 38 N94-29366

CRACKING (FRACTURING)

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

CRACKS

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Method of continuously determining crack length
[NASA-CASE-LAR-14480-1-CU] c 39 N93-29612
Flux-focusing eddy current probe and method for flaw detection
[NASA-CASE-LAR-15046-1] c 38 N94-29366

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Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N94-20369

CRASH LANDING

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

CREEP RUPTURE STRENGTH

Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

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High temperature creep and oxidation resistant chromium silicide matrix alloy containing molybdenum
[NASA-CASE-LEW-15697-1] c 26 N94-36275

CREEP TESTS

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

CRITICAL EXPERIMENTS

Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

CRITICAL TEMPERATURE

Stable superconducting magnet — high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264

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Cross correlation anomaly detection system
[NASA-CASE-NPO-13263] c 38 N78-17395
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N94-20303

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Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N93-26000

CROSS POLARIZATION

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

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Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

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Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced

[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers — heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
In-situ cross linking of polyvinyl alcohol — application to battery separator films
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[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052
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[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
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[NASA-CASE-LAR-13616-3] c 74 N92-29158
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
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[NASA-CASE-NPO-18733-1-CU] c 06 N93-30416
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[NASA-CASE-LEW-15430-1] c 71 N93-17051

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[NASA-CASE-LAR-10195-1] c 15 N73-19458
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[NASA-CASE-XMS-04533] c 15 N71-23086
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Method of up-front load balancing for local memory parallel processors
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Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
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High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

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Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

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[NASA-CASE-ERC-10180-1] c 60 N74-20836

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[NASA-CASE-ARC-11622-1] c 44 N88-14492

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- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Doppler shift system — system for measuring velocities of radiating particles
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- Servo-mechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
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[NASA-CASE-LAR-13268-1] c 35 N87-14669
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- Edge technique for measurement of laser frequency shifts including the Doppler shift
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- Cooperative Doppler radar system Patent
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- Lightweight, variable solidity knitted parachute fabric — for aerodynamic decelerators
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- Hanging drop crystal growth apparatus and method
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- Human serum albumin crystals and method of preparation
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- Laser head for simultaneous optical pumping of several dye lasers — with single flash lamp
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- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
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- Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
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[NASA-CASE-LAR-13742-1] c 02 N92-21588

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- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
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- Apparatus for and method of compensating dynamic unbalance
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[NASA-CASE-XLA-01326] c 11 N71-21481
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
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[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
- Numerical control fabrication technique for dynamic composite models
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- Impact simulator Patent
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- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Response analyzers for sensors Patent
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[NASA-CASE-NPO-13139-1] c 60 N76-21914

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

A method of detecting and locating electrical current imbalances
[NASA-CASE-LEW-15407-1] c 33 N94-15706

Cellulose triacetate, thin film dielectric capacitor
[NASA-CASE-NPO-18935-1-CU] c 33 N94-15952

ELECTRICAL IMPEDANCE

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Signal conditioning circuit apparatus — with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

ELECTRICAL INSULATION

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Coaxial cable connector
[NASA-CASE-NPO-16784-1-CU] c 33 N88-14270

Low dielectric polyimides
[NASA-CASE-LAR-14987-2] c 27 N94-17559

ELECTRICAL MEASUREMENT

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246

Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

Four-terminal electrical testing device — initiator bridgeway resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-2-CU] c 47 N93-10108

Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N93-29084

System for improving measurement accuracy of transducer by measuring transducer temperature and resistance change using thermoelectric voltages
[NASA-CASE-ARC-12014-1] c 35 N94-29361

ELECTRICAL PROPERTIES

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053

Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058

Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044

Storage battery comprising negative plates of a wedge shaped configuration — for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Thermocouple tape — developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434

Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

ELECTRICAL RESISTANCE

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

Four-terminal electrical testing device — initiator bridgeway resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

System for improving measurement accuracy of transducer by measuring transducer temperature and resistance change using thermoelectric voltages
[NASA-CASE-ARC-12014-1] c 35 N94-29361

ELECTRICAL RESISTIVITY

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064

Thermopile vacuum gate tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481

Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164

Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

Lightweight electrically-powered flexible thermal laminate — made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

Method and device for detection of a substance — determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
- Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704
- Method for producing hybrid graphite composite
[NASA-CASE-LEW-15241-2] c 24 N93-31296
- Non-volatile, solid state bistable electrical switch
[NASA-CASE-NPO-17621-1-CU] c 33 N94-23820
- ELECTRICITY**
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- ELECTRO-OPTICS**
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Ultrastable calibrated light source
[NASA-CASE-MS-12293-1] c 14 N72-27411
- Optical conversion method — for spacecraft television
[NASA-CASE-MS-12618-1] c 74 N78-17865
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551
- Full complex modulation using two one-parameter spatial light modulators
[NASA-CASE-MS-22255-1] c 74 N93-28135
- Reconfigurable optical interconnections via dynamic computer-generated holograms
[NASA-CASE-NPO-19039-1-CU] c 74 N94-29491
- ELECTROACOUSTIC TRANSDUCERS**
- Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- Material suspension within an acoustically excited resonant chamber — at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- CDS solid state phase insensitive ultrasonic transducer — annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- Absolute calibration technique for broadband ultrasonic transducers
[NASA-CASE-LAR-14672-1] c 35 N94-35368
- ELECTROACOUSTIC WAVES**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- ELECTROCARDIOGRAPHY**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- ELECTROCATALYSTS**
- Electrocatalyst for oxygen reduction
[NASA-CASE-MQN-10537-1] c 06 N72-10138
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- ELECTROCHEMICAL CELLS**
- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Battery testing device — for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Method and device for the detection of phenol and related compounds — in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N93-28974
- Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505
- ELECTROCHEMICAL MACHINING**
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- ELECTROCHEMICAL OXIDATION**
- Method and device for the detection of phenol and related compounds — in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- ELECTROCHEMISTRY**
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
- ELECTRODE FILM BARRIERS**
- Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- ELECTRODE MATERIALS**
- Overcharge and overdischarge protection of ambient temperature secondary lithium cells
[NASA-CASE-NPO-18343-1-CU] c 33 N94-23823
- ELECTRODEPOSITION**
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Electrophoretic sample insertion — device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method and device for the detection of phenol and related compounds — in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- ELECTRODES**
- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-90153-2] c 05 N72-25120
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Compressible biomedical electrode
[NASA-CASE-MS-13648] c 05 N72-27103
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Snap-in compressible biomedical electrode
[NASA-CASE-MS-14623-1] c 52 N77-28717
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

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- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Multistage depressed collector for dual mode operation — for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677
- Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030
- Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277
- Cellulose triacetate, thin film dielectric capacitor
[NASA-CASE-NPO-18935-1-CU] c 33 N94-15952
- ### ELECTRODIALYSIS
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- ### ELECTROFORMING
- Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
- ### ELECTROHYDRAULIC FORMING
- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- ### ELECTROHYDRODYNAMICS
- Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- ### ELECTROKINETICS
- Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
- ### ELECTROLUMINESCENCE
- Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
- Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
- Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
- Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
- ### ELECTROLYSIS
- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- Water electrolysis
[NASA-CASE-MSC-21572-1-SB] c 25 N92-28756
- Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N93-29617

ELECTROLYTES

- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
- Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753
- ### ELECTROLYTIC CELLS
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Atomic hydrogen storage method and apparatus
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Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

Solar thermal energy receiver
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Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582

Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529

Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

Back wall solar cell
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Solar cell module assembly jig
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Solar energy collection system
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Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

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Gas particle radiator
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Pulse thermal energy transport/storage system
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Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N93-22034

ENGINE ANALYZERS

Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

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Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

Power control for hot gas engines
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Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

ENGINE COOLANTS

Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

ENGINE DESIGN

Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185

Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

Hydrogen-fueled engine
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Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

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System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

ENGINE INLETS

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

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- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

ENGINE NOISE

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

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- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
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[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

ENGINE STARTERS

- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

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- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

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- High-temperature, high-pressure spherical segment valve Patent
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[NASA-CASE-FRC-10063] c 01 N71-12217
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
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[NASA-CASE-XMF-03498] c 15 N71-15986

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- Electrostatically suspended rotor for angular encoder
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- Water separator
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- Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
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[NASA-CASE-ARC-10153] c 05 N71-28619
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[NASA-CASE-MSC-21752-1] c 54 N94-20194

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- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

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- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
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[NASA-CASE-LAR-10106-1] c 15 N71-27169
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- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
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- Thermal control wall panel Patent
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- System for real-time crustal deformation monitoring
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- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
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- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
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- Synthesis of siloxane-containing epoxy polymers Patent
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[NASA-CASE-MFS-13994-2] c 06 N72-25148
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[NASA-CASE-ARC-11104-1] c 15 N79-26100
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- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
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- Epoxy-aziridine polymer product Patent
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[NASA-CASE-ARC-10813-1] c 27 N76-16230
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Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
Channel-type shell construction for rocket engines and the like Patent
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Non-reusable kinetic energy absorber Patent
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Slit regulated gas journal bearing Patent
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Optical communications system Patent
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Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
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Anti-buckling fatigue test assembly — for subjecting metal specimen to tensile and compressive loads at constant temperature
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- Thermocouple tape — developed from thermoelectrically different metals
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- Field effect transistor and method of construction thereof
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- Remotely controlled spray gun
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- Instrument for measuring potentials on two dimensional electric field plots Patent
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- Tilting table for ergometer and for other biomedical devices
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- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Ergometer calibrator — for any ergometer utilizing rotating shaft
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- Thermal shock and erosion resistant tantalum carbide ceramic material
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- Self-correcting electronically scanned pressure sensor
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- Reed-Solomon decoder
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- Processing circuit with asymmetry corrector and convolutional encoder for digital data
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- Local area network with fault-checking, priorities, and redundant backup
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- VLSI architecture for a Reed-Solomon decoder
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- Mappings between codewords of two distinct (N,K) Reed-Solomon codes over GF(2 sup J)
[NASA-CASE-NPO-18771-1-CU] c 61 N93-11664

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- Automatic fault correction system for parallel signal channels Patent
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- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- Failure detection and control means for improved drift performance of a gimbaled platform system
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- Self-testing and repairing computer Patent
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- Hidden Markov models for fault detection in dynamic systems
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- Automatic fault correction system for parallel signal channels Patent
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[NASA-CASE-GSC-10554-1] c 08 N71-29033
- Bit error rate measurement above and below bit rate tracking threshold
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- Aerial capsule emergency separation device Patent
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- Emergency escape system Patent
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- Vinyl capped addition polyimides
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- Addition polyimides with enhanced processability
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- Tunable CW diode-pumped Tm,Ho:YLiF4 laser operating at or near room temperature
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- Selective formation of porous silicon
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[NASA-CASE-XNP-02092] c 15 N70-42033
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- High resolution developing of photosensitive resists Patent
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- Etching of aluminum for bonding Patent
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Numerical computer peripheral interactive device with manual controls
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Gas low pressure low flow rate metering system Patent
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[NASA-CASE-NPO-10416] c 12 N71-27332

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Nuclear mass flowmeter
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Flow rate switch
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Capacitive tank gaging apparatus being independent of liquid distribution
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Cryogenic feedthrough
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Geysering inhibitor for vertical cryogenic transfer pipe
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Pump for delivering heated fluids
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Flow control valve — for high temperature fluids
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Apparatus for establishing flow of a fluid mass having a known velocity
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Internally supported flexible duct joint — device for conducting fluids in high pressure systems
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Filter regeneration systems — a system for regenerating a system filter in a fluid flow line
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Combined dual scatter, local oscillator laser Doppler velocimeter
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Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

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Fluid velocity measuring device
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[NASA-CASE-MSC-20783-1] c 35 N86-20756

Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752

Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-12394-1] c 35 N86-32696

Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818

Dual motion valve with single motion input
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Pressure measuring probe
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Fluidic momentum controller
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Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

Apparatus for mixing solutions in low gravity environments
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Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

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Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

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Logic AND gate for fluid circuits Patent
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Modified face seal for positive film stiffness
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Flow compensating pressure regulator
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Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Pressure letdown method and device for coal conversion systems
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Damping seal for turbomachinery
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Thermal power transfer system using applied potential difference to sustain operating pressure difference
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Passive control of pressure loads using porosity
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[NASA-CASE-ERC-10100] c 09 N71-33519

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[NASA-CASE-ARC-10106-1] c 28 N72-22769

Fluid pressure amplifier and system
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Fluid valve assembly
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Fluidic angular velocity sensor
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Heat exchanger with oscillating flow
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- Optical fibers and fluorosensors having improved power efficiency and methods of producing same
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- Decoupler pylon: wing/store flutter suppressor
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- Remote pivot decoupler pylon: Wing/store flutter suppressor
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- Intumescent composition, foamed product prepared therewith and process for making same
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Device for handling heavy loads
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[NASA-CASE-XAC-04886-1] c 14 N71-20439

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[NASA-CASE-XNP-05634] c 15 N71-24834

Impact monitoring apparatus
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Variable direction force coupler
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Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

Device for quick changeover between wind tunnel force and pressure testing
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Prosthetic helping hand
[NASA-CASE-MFS-28430-1] c 54 N92-24044

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[NASA-CASE-MFS-28707-1] c 54 N94-35115

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[NASA-CASE-LAR-12326-1] c 02 N81-14968

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[NASA-CASE-ARC-11244-1] c 23 N82-16174

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Digital data reformatter/deserializer
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[NASA-CASE-XLE-00023] c 15 N70-33330

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[NASA-CASE-XMS-05516] c 15 N71-17803

Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579

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[NASA-CASE-XMF-03793] c 15 N71-24833

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[NASA-CASE-XLE-08917-2] c 15 N71-24836

Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522

Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

Molding apparatus — for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920

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[NASA-CASE-LEW-11925-1] c 37 N75-31446

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[NASA-CASE-LEW-11694-2] c 37 N76-14461

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[NASA-CASE-LEW-12083-1] c 37 N78-13436

Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333

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Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

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[NASA-CASE-XNP-08124] c 15 N71-27184

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Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

Acoustophoresis separation method
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[NASA-CASE-LEW-12542-3] c 26 N80-32484

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[NASA-CASE-LAR-12065-2] c 24 N81-33235

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

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[NASA-CASE-XMF-01772] c 11 N70-41677

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Solar energy power system — using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

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High efficiency multifrequency feed
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- Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882
- Wide angle, single screen, gridded square-loop frequency selective surface for duplexing two closely separated frequency bands
[NASA-CASE-NPO-18664-1-CU] c 89 N94-17438
- ### FREQUENCY ANALYZERS
- Digital frequency discriminator Patent
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[NASA-CASE-NPO-11147] c 14 N72-27408
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[NASA-CASE-NPO-11515-1] c 33 N77-13315
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[NASA-CASE-MSC-21408-1] c 37 N91-14607
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[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
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- Linear accelerator frequency control system Patent
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- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- Automatic frequency control for FM transmitter
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- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
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[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- Digital numerically controlled oscillator
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- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
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- Automatic oscillator frequency control system
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- Burst-by-burst laser frequency monitor
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- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
- Variable frequency inverter for ac induction motors with torque, speed and braking control
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- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
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- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
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- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
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- Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

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- Low phase noise digital frequency divider
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- Technique for extending the frequency range of digital dividers
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[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
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- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14849-1] c 33 N76-16331
- Time domain phase measuring apparatus
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- Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
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- Junction range finder
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[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
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- Frequency-scanning particle size spectrometer
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- Elimination of frequency shift in a multiplex communication system Patent
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- Laser fluid velocity detector Patent
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- Laser Doppler velocity simulator — to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
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[NASA-CASE-NPO-18978-1-CU] c 33 N94-29488

INDUCED DRAG

Minimum induced drag airfoil body Patent

[NASA-CASE-XLA-00755] c 01 N71-13410

Minimum induced drag airfoil body Patent

[NASA-CASE-XLA-05828] c 01 N71-13411

INDUCTANCE

Current dependent filter inductance

[NASA-CASE-ERC-10139] c 09 N72-17154

Inductance device with vacuum insulation

[NASA-CASE-LEW-10330-1] c 09 N72-27226

Direct reading inductance meter

[NASA-CASE-NPO-13792-1] c 35 N77-32455

Feedback DC-to-DC converter

[NASA-CASE-GSC-13404-1] c 33 N94-15874

INDUCTION

Induction-type metal detector with increased scanning area capability

[NASA-CASE-KSC-11386-1] c 35 N90-22023

INDUCTION HEATING

Induction furnace with perforated tungsten foil shielding

Patent

[NASA-CASE-XLE-04026] c 14 N71-23267

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt

[NASA-CASE-NPO-14297-1] c 33 N81-18389

One-step dual purpose joining technique

[NASA-CASE-LAR-12595-1] c 33 N82-26571

Induction heating gun

[NASA-CASE-LAR-13181-1] c 31 N85-29083

Flexible heating head for induction heating apparatus and method

[NASA-CASE-LAR-14679-2] c 32 N92-31150

Flexible heating head for induction heating

[NASA-CASE-LAR-14418-15-B] c 32 N94-20368

INDUCTION MOTORS

Induction motor control system with voltage controlled oscillator circuit

[NASA-CASE-MFS-21465-1] c 10 N73-32145

Variable frequency inverter for ac induction motors with torque, speed and braking control

[NASA-CASE-MFS-22088-1] c 33 N75-15874

Power factor control system for AC induction motors

[NASA-CASE-MFS-23280-1] c 33 N78-10376

Three phase power factor controller

[NASA-CASE-MFS-25535-1] c 33 N81-12330

Power factor control system for ac induction motors

[NASA-CASE-MFS-23988-1] c 33 N81-27395

Motor power factor controller with a reduced voltage starter

[NASA-CASE-MFS-25586-1] c 33 N82-11360

Magnetic field control — electromechanical torquing device

[NASA-CASE-MFS-23828-1] c 33 N82-26569

Electrical power generating system

[NASA-CASE-MFS-25302-1] c 33 N83-28319

Triac failure detector

[NASA-CASE-MFS-25607-1] c 33 N83-34190

Control system for an induction motor with energy recovery

[NASA-CASE-MFS-25477-1] c 33 N84-14424

Three phase power factor controller

[NASA-CASE-MFS-25535-2] c 33 N84-22885

Motor power control circuit for ac induction motors

[NASA-CASE-MFS-25323-1] c 33 N84-22886

Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines

[NASA-CASE-MFS-25302-2] c 33 N84-33660

Three-phase power factor controller with induced EMF sensing

[NASA-CASE-MFS-25852-1] c 33 N84-33661

Solar powered actuator with continuously variable auxiliary power control

[NASA-CASE-MFS-25637-1] c 44 N85-21769

Power control for ac motor

[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS

Inductive liquid level detection system Patent

[NASA-CASE-XLE-01609] c 14 N71-10500

Vacuum deposition apparatus Patent

[NASA-CASE-XMF-01667] c 15 N71-17647

Constant frequency output two stage induction machine systems Patent

[NASA-CASE-ERC-10065] c 09 N71-27364

Elimination of current spikes in buck power converters

[NASA-CASE-NPO-14505-1] c 33 N81-19393

Improved high power/high frequency inductor

[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

Feedback DC-to-DC converter

[NASA-CASE-GSC-13404-1] c 33 N94-15874

INDUSTRIAL PLANTS

Process for making diamonds

[NASA-CASE-MFS-20688-2] c 15 N73-19457

INDUSTRIAL WASTES

Process of forming catalytic surfaces for wet oxidation reactions

[NASA-CASE-MSC-14831-1] c 25 N78-10225

Process for purification of waste water produced by a Kraft process pulp and paper mill

[NASA-CASE-NPO-13847-2] c 85 N79-17747

Hazardous materials emergency response mobile robot

[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

INERT ATMOSPHERE

Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere

[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA

Bidirectional step torque filter with zero backlash characteristic Patent

[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION

Method and apparatus for producing gas-filled hollow spheres — target pellets for inertial confinement fusion

[NASA-CASE-NPO-14596-3] c 31 N83-31896

Contactless pellet fabrication

[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE

Hermetic sealed vibration damper Patent

[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION

Autonomous navigation system — gyroscopic pendulum for air navigation

[NASA-CASE-ARC-11257-1] c 04 N81-21047

Assured crew return vehicle

[NASA-CASE-MSC-21536-1] c 18 N92-21999

INERTIAL PLATFORMS

Clamping assembly for inertial components Patent

[NASA-CASE-XMS-02184] c 15 N71-20813

Azimuth laying system Patent

[NASA-CASE-XMF-01669] c 21 N71-23289

Temperature compensated digital inertial sensor — circuit for maintaining inertial element of gyroscope or accelerometer at constant position

[NASA-CASE-NPO-13044-1] c 35 N74-15094

Attitude control system

[NASA-CASE-MFS-22787-1] c 15 N77-10113

Rim inertial measuring system

[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS

Attitude control system Patent

[NASA-CASE-XGS-04393] c 21 N71-14159

Inertial reference apparatus Patent

[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT

Thermal control of space vehicles Patent

[NASA-CASE-XLA-01291] c 33 N70-36617

Passive communication satellite Patent

[NASA-CASE-XLA-00210] c 30 N70-40309

Rotating mandrel for assembly of inflatable devices Patent

[NASA-CASE-XLA-04143] c 15 N71-17687

Method of making an inflatable panel Patent

[NASA-CASE-XLA-03497] c 15 N71-23052

Orbital escape device Patent

[NASA-CASE-XMS-06162] c 31 N71-28851

INFLATABLE STRUCTURES

Aeroflexible structures

[NASA-CASE-XLA-06095] c 01 N69-39981

Life raft Patent

[NASA-CASE-XMS-00863] c 05 N70-34857

Life preserver Patent

[NASA-CASE-XMS-00864] c 05 N70-36493

Inflatable honeycomb Patent

[NASA-CASE-XLA-00204] c 32 N70-36536

Inflatable radar reflector unit Patent

[NASA-CASE-XMS-00893] c 07 N70-40063

Excessive temperature warning system Patent

[NASA-CASE-XLA-01926] c 14 N71-15620

Inflation system for balloon type satellites Patent

[NASA-CASE-XGS-03351] c 31 N71-16081

Aerodynamic protection for space flight vehicles Patent

[NASA-CASE-XNP-02507] c 31 N71-17679

Self supporting space vehicle Patent

[NASA-CASE-XLA-00117] c 31 N71-17680

Conforming polisher for aspheric surface of revolution Patent

[NASA-CASE-XGS-02884] c 15 N71-22705

Method of making inflatable honeycomb Patent

[NASA-CASE-XLA-03492] c 15 N71-22713

Collapsible antenna boom and transmission line Patent

[NASA-CASE-MFS-20068] c 07 N71-27191

Inflatable tether Patent

[NASA-CASE-XMS-10993] c 15 N71-28936

Inflatable transpiration cooled nozzle

[NASA-CASE-MFS-20619] c 28 N72-11708

Modification of one man life raft

[NASA-CASE-LAR-10241-1] c 54 N74-14845

Emergency space-suit helmet

[NASA-CASE-MSC-10954-1] c 54 N78-18761

Pressure control valve — inflating flexible bladders

[NASA-CASE-ARC-11251-1] c 37 N81-17433

Pneumatic inflatable end effector

[NASA-CASE-MFS-23696-1] c 54 N81-26718

Inflatable device for installing strain gage bridges

[NASA-CASE-FRC-11068-1] c 35 N84-12443

Ballast system for maintaining constant pressure in a glove box

[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

Inflatable rescue device

[NASA-CASE-MSC-22244-1] c 54 N94-15883

Tetrahedral lander

[NASA-CASE-MSC-22082-1] c 18 N94-20590

INFORMATION

Method and apparatus for filtering visual documents

[NASA-CASE-MSC-22093-1] c 82 N93-22017

INFORMATION FLOW

Hidden Markov models for fault detection in dynamic systems

[NASA-CASE-NPO-18982-1-CU] c 38 N93-30413

INFORMATION RETRIEVAL

Multiple hologram recording and readout system Patent

[NASA-CASE-ERC-10151] c 16 N71-29131

Dynamic pattern matcher using incomplete data

[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFORMATION SYSTEMS

Dynamic pattern matcher using incomplete data

[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFORMATION THEORY

Dynamic pattern matcher using incomplete data

[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFRARED DETECTORS

Temperature sensitive capacitor device

[NASA-CASE-XNP-09750] c 14 N69

SUBJECT INDEX

Broadband optical radiation detector.
[US-PATENT-4,262,198] c 74 N83-19597

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

INAS hole-immobilized doping superlattice
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056

Long wavelength infrared detector
[NASA-CASE-NPO-17543-2-CU] c 35 N93-19387

INFRARED IMAGERY
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N93-22037

INFRARED INSTRUMENTS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Thermal compensator for closed-cycle helium refrigerator — assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED PHOTOMETRY
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

INFRARED RADIATION
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N93-22037

INFRARED REFLECTION
Electromagnetic radiation energy arrangement — coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

INFRARED SPECTROMETERS
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Cooled echelle grating spectrometer — for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)

Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

Four-terminal electrical testing device — initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

INJECTION
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455

Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

Liquid fuel injection elements for rocket engines
[NASA-CASE-MFS-28547-1] c 20 N94-20370

Apparatus for testing high pressure injector elements
[NASA-CASE-MFS-28773-1] c 37 N94-29365

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Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N93-25996

Gas storage and recovery system
[NASA-CASE-MSC-22091-1] c 31 N93-28136

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N93-25996

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus — includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

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INORGANIC COATINGS

Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS

Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

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Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

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Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSECTS

Recombinant protein production and insect cell culture and process
[NASA-CASE-MSC-22336-1] c 51 N94-36751

INSERTION

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N93-22384

INSPECTION

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

INSTALLING

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

System for the installation and replacement of components in hostile environments
[NASA-CASE-LEW-14906-1-SB] c 37 N94-29427

INSTRUMENT COMPENSATION

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

INSTRUMENT PACKAGES

- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliostrop
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES

- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

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- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
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[NASA-CASE-XMF-01974] c 14 N71-22752
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
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[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MS-12372-1] c 31 N72-25842
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[NASA-CASE-LAR-11889-2] c 37 N78-27424
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[NASA-CASE-ARC-10881-1] c 37 N78-27425

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- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

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- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MS-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MS-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

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- Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
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[NASA-CASE-NPO-13690-1] c 27 N78-19302
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[NASA-CASE-LAR-12363-2] c 33 N83-24763
Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
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[NASA-CASE-LEW-13935-1] c 33 N87-21234

Three-grid accelerator system for an ion propulsion engine
[NASA-CASE-NPO-18391-1-CU] c 20 N93-28424

Carbon-carbon grid for ion engines
[NASA-CASE-NPO-19174-1-CU] c 20 N94-15876

Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

ION EXCHANGE MEMBRANE ELECTROLYTES
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Dialysis system — using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1-SB] c 51 N93-18351

ION EXCHANGING
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

Ion exchange polymers and method for making
[NASA-CASE-LEW-15576-1] c 27 N93-31316

ION EXTRACTION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

ION IMPLANTATION
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N93-20119

ION IRRADIATION
Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

ION MOTION
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802

Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980

Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922

Electron bombardment ion engine Patent
[NASA-CASE-NPO-04124] c 28 N71-21822

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642

Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771

Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310

Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461

Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162

Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

Three-grid accelerator system for an ion propulsion engine
[NASA-CASE-NPO-18391-1-CU] c 20 N93-28424

Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

ION PUMPS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046

Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION TRAPS (INSTRUMENTATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

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IONIZATION CHAMBERS

- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

IONIZATION CROSS SECTIONS

- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

IONIZATION GAGES

- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS

- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES

- Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030

IONIZERS

- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Electron reversal ionizer for detection of trace species using a spherical cathode
[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329

IONIZING RADIATION

- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- Reinforced polyquinoxaline gasket and method of preparing the same — resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

IONOSPHERIC DISTURBANCES

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

IRIDIUM

- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON

- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS

- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES

- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS

- Coal desulfurization — using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Vitro-violet process for producing flame resistant polyamides and products produced thereby — protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015
- Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372

IRRIGATION

- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

ISOLATORS

- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N94-35074

ISOPROPYL ALCOHOL

- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOPROPYL COMPOUNDS

- Polyimides containing amide and perfluoroisopropylidene connecting groups
[NASA-CASE-LAR-14608-1] c 27 N94-20374

ISOTHERMAL LAYERS

- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

ITERATION

- Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

JACOBI MATRIX METHOD

- Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553

JET AIRCRAFT

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Noise suppressor — for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Cascade plug nozzle — for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- Jet mixer noise suppressor using acoustic feedback
[NASA-CASE-LEW-15170-1] c 71 N93-28953

JET AMPLIFIERS

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL

- Altitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

- Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Cascade plug nozzle — for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Electrical servo actuator bracket — fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

JET EXHAUST

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW

- Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

JET MIXING FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION

- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- JET PUMPS**
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- JET THRUST**
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
- JETTISON SYSTEMS**
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- JIGS**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- JOINING**
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- JOINTS (ANATOMY)**
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Orthotic arm joint — for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N94-20493
Selectively lockable knee brace
[NASA-CASE-MFS-28991-1] c 54 N94-36838
Channel in hip implant stem
[NASA-CASE-MFS-28987-1] c 54 N94-36840
- JOINTS (JUNCTIONS)**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Diffusion welding in air — solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
Bonded joint and method — for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Method of determining bond quality of power transistors attached to substrates — X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Method of inserting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-1] c 37 N92-24243
Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MSC-21940-1] c 37 N92-30540
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
Flexible robotic arm
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[NASA-CASE-XGS-00260] c 31 N70-37924

LEVEL (HORIZONTAL)

Hot wire liquid level detector for cryogenic fluids

Patent

[NASA-CASE-XLE-00454] c 23 N71-17802

Rotary leveling base platform

[NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)

Spherical tank gauge Patent

[NASA-CASE-XMS-06236] c 14 N71-21007

Positive dc to positive dc converter Patent

[NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING

Adjustable attitude guide device Patent

[NASA-CASE-XLA-07911] c 15 N71-15571

Electrical switching device Patent

[NASA-CASE-NPO-10037] c 09 N71-19610

Adjustable support

[NASA-CASE-NPO-10721] c 15 N72-27484

Automatically operable self-leveling load table

[NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVERS

Preloaded latching device

[NASA-CASE-MSC-21730-1] c 37 N93-13417

LEVITATION

Gas levitator having fixed levitation node for containerless processing

[NASA-CASE-MFS-25509-1] c 35 N83-24828

Closed loop electrostatic levitation system

[NASA-CASE-NPO-15553-1] c 33 N85-29142

Superconducting bearings with levitation control configurations

[NASA-CASE-GSC-13346-1] c 37 N92-29099

LEVITATION MELTING

High temperature acoustic levitator

[NASA-CASE-NPO-16022-1] c 71 N85-22105

Sample levitation and melt in microgravity

[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

Plasma heating for containerless and microgravity materials processing

[NASA-CASE-NPO-18819-1-CU] c 29 N94-29371

LIFE (DURABILITY)

Hollow rolling element bearings

[NASA-CASE-LEW-11087-3] c 37 N74-21064

Method of increasing minority carrier lifetime in silicon web or the like

[NASA-CASE-NPO-15530-1] c 76 N83-35888

Apparatus for disintegrating kidney stones

[NASA-CASE-GSC-12652-1] c 52 N84-34913

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor

[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Arc-textured high emittance radiator surfaces

[NASA-CASE-LEW-14679-1] c 27 N91-25296

Slow positron beam generator for lifetime studies

[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

Three-grid accelerator system for an ion propulsion engine

[NASA-CASE-NPO-18391-1-CU] c 20 N93-28424

LIFE DETECTORS

Use of the enzyme hexokinase for the reduction of inherent light levels

[NASA-CASE-XGS-05533] c 04 N69-27487

Lyophilized reaction mixtures Patent

[NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS

SUBJECT INDEX

Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
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[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device — life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

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Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

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[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
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[NASA-CASE-LAR-10249-1] c 02 N71-26110
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[NASA-CASE-LAR-10574-1] c 11 N73-13257
High lift aircraft — with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFT DRAG RATIO
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
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[NASA-CASE-FRC-11007-2] c 05 N82-26277
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

LIFTING BODIES
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[NASA-CASE-XMF-00389] c 31 N70-34176
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[NASA-CASE-FRC-10063] c 01 N71-12217
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LIFTING REENTRY VEHICLES
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[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
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[NASA-CASE-XAC-02058] c 02 N71-16087

LIFTING ROTORS
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[NASA-CASE-LAR-13215-1] c 02 N89-14224

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[NASA-CASE-ARC-11370-1] c 27 N84-22750

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[NASA-CASE-NPO-10337] c 14 N71-15604
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[NASA-CASE-LAR-10739-1] c 14 N73-16484
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[NASA-CASE-MSC-18417-1] c 74 N85-29750
Deployable reflector structure
[NASA-CASE-LAR-14513-1-SB] c 32 N94-29360

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[NASA-CASE-LAR-10249-1] c 02 N71-26110

LIGHT BEAMS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams
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Collimated beam manifold with the number of output beams variable at a given output angle
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Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
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[NASA-CASE-MFS-28060-1] c 76 N87-25862
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[NASA-CASE-GSC-13562-1] c 61 N94-15703
Rotary encoding device
[NASA-CASE-GSC-13556-1] c 61 N94-15943
Rotary encoding device using polygonal mirror with diffraction gratings on each facet
[NASA-CASE-GSC-13543-1] c 74 N94-20240
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[NASA-CASE-ARC-11889-1-SB] c 74 N94-23309

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[NASA-CASE-LAR-13963-1] c 76 N90-24150

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[NASA-CASE-LAR-12630-1] c 06 N84-27733
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Means for phase locking the outputs of a surface emitting laser diode array
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[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
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[NASA-CASE-LEW-14795-1] c 74 N91-21871
Laser with optically driven Q-switch
[NASA-CASE-NPO-18470-1-CU] c 36 N94-15932

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[NASA-CASE-XAC-05902] c 11 N71-18578

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[NASA-CASE-GSC-10062] c 14 N71-15605
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[NASA-CASE-XMS-04300] c 09 N71-19479
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[NASA-CASE-GSC-10216-1] c 23 N71-26722
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[NASA-CASE-KSC-10565] c 09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
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[NASA-CASE-GSC-12528-1] c 74 N81-24900
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
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[NASA-CASE-MSC-22255-1] c 74 N93-28135
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[NASA-CASE-NPO-18278-1-CU] c 74 N94-20303
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[NASA-CASE-NPO-19039-1-CU] c 74 N94-29491

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A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
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Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
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[NASA-CASE-XLA-00141] c 09 N70-33312
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[NASA-CASE-XNP-00438] c 21 N70-35089
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[NASA-CASE-XNP-01059] c 23 N71-21821
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[NASA-CASE-MSC-12293-1] c 14 N72-27411
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[NASA-CASE-ARC-10278-1] c 14 N73-25463
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LIGHT TRANSMISSION
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[NASA-CASE-XKS-03509] c 14 N71-23175
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Constant magnification optical tracking system
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Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
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[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
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- LIGHTNING**
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- Mechanical actuator Patent
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- Linear magnetic bearing
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- Linear motion valve
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- Instrumentation for sensing moisture content of material using a transient thermal pulse
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Spillage detector for liquid chromatography systems
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External liquid-spray cooling of turbine blades Patent
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Power system with heat pipe liquid coolant lines Patent
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- Liquid crystal light valve structures
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[NASA-CASE-MSC-21460-1] c 54 N91-13879
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- Large area projection liquid-crystal video display system with inherent grid pattern optically removed
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- Shear sensitive monomer-polymer laminate structure and method of using same
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- Fluid sample collector Patent
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Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

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Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Low temperature latching solenoid
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Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
Magnetically operated check valve
[NASA-CASE-MS-C-22046-1] c 37 N94-35661

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Variable frequency magnetic multivibrator Patent
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Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
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Magnetic power switch Patent
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Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
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Balance torque meter Patent
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Means for communicating through a layer of ionized gases Patent
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Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Electrostatic ion engine having a permanent magnetic circuit Patent
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Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Ion thruster magnetic field control
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Superconductive magnetic-field-trapping device
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[NASA-CASE-LEW-11617-1] c 33 N74-10195

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315

Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

Atomic hydrogen storage — cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Maser cavity servo-tuning system
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Magnetic drive coupling
[NASA-CASE-MS-C-21171-1] c 37 N88-23973

Magnetic attachment mechanism
[NASA-CASE-MS-C-21095-1] c 37 N89-12866

Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

Magnetic power piston fluid compressor
[NASA-CASE-GSC-13565-1] c 37 N94-23831

MAGNETIC FILMS

Manganese bismuth films with narrow transfer characteristics for Cune-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

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Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516

Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetic bearing — for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Linear magnetic motor/generator — to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

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Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

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Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892

Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Magnetic drive coupling
[NASA-CASE-MS-C-21171-1] c 37 N88-23973

Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

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Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
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[NASA-CASE-XLE-01512] c 12 N70-40124

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MAGNETIC MEASUREMENT

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Magnetometer using superconducting rotating body
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Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
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Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

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Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetocaloric pump — for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

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Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

Dual purpose momentum wheels for spacecraft with magnetic recording
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Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

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Magnetic bearing and motor
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Single element magnetic suspension actuator
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[NASA-CASE-LAR-13785-1] c 70 N91-21824

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[NASA-CASE-NPO-10242] c 09 N71-24803

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

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Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

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[NASA-CASE-XGS-00373] c 23 N71-15978

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-C-14219-1] c 32 N74-27612

Automatic character skew and spacing checking network — of digital tape drive systems
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Braille reading system
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[NASA-CASE-LAR-13817-1] c 26 N90-21170

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Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

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Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803

Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

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Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

Thermally cycled magnetometer Patent
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Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

Low energy electron magnetometer using a monoenergetic electron beam
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Method of producing high T(subc) superconducting NBN films
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[NASA-CASE-XNP-09771] c 09 N71-24841

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Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772

Miniature cyclotron resonance ion source using small permanent magnet
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Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Shaft transducer having dc output proportional to angular velocity
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Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284

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Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

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Magnifying image intensifier
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Constant magnification optical tracking system
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Spectral slicing X-ray telescope with variable magnification
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Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

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Self-testing and repairing computer Patent
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Bonding or repairing process
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Method of repairing discontinuity in fiberglass structures
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System and method for refurbishing and processing parachutes — monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

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Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
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Valve malfunction detection apparatus
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Multi-cellular, three-dimensional living mammalian tissue
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User friendly joystick
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[NASA-CASE-XLA-04126] c 28 N71-26779

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Collimated beam manifold with the number of output beams variable at a given output angle
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Extended temperature range rocket injector
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Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
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 - Catalyst surfaces for the chromous/chromic redox couple
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- Pretreatment of lubricated surfaces with sputtered cadmium oxide
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- Guanidine based vehicle/binders for use with oxides, metals, and ceramics
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- Thin composite solid electrolyte film for lithium batteries
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- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Injection head for delivering liquid fuel and oxidizers
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- Device and method for frictionally testing materials for ignitability
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[NASA-CASE-MFS-20486-2] c 27 N74-17283
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- A method for making biocompatible polymer articles using atomic oxygen
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- Atomic oxygen reactor having at least one sidearm conduit
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- Atomic oxygen protective coating with resistance to undercutting at defect sites
[NASA-CASE-LEW-15306-1] c 27 N94-35502

OXYGEN CONSUMPTION

- Method and system for respiration analysis Patent
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OXYGEN FLUORIDES

- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

OXYGEN ISOTOPES

- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

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- Metabolic analyzer — for measuring metabolic rate and breathing dynamics of human beings
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- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
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OXYGEN PRODUCTION

- Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
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- Method for producing oxygen from lunar materials
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- Lead-oxygen dc power supply system having a closed loop oxygen and water system
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[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
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P

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P-N JUNCTIONS

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[NASA-CASE-XLA-04980] c 09 N69-27422
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[NASA-CASE-XGS-07801] c 09 N71-12513
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Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
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Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
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[NASA-CASE-NPO-14100-1] c 44 N79-12541
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- Semiconductor material and method of making same
Patent
[NASA-CASE-XLE-02788] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

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- Impact testing machine Patent
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- Folding apparatus Patent
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Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
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[NASA-CASE-MFS-20855] c 15 N73-27405
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- Non-blocking crossbar permutation engine with constant routing latency
[NASA-CASE-NPO-18864-1-CU] c 62 N94-17328
A scalable wrap-around shuffle exchange network with deflection routing
[NASA-CASE-NPO-18983-1-CU] c 62 N94-17330

PACKET TRANSMISSION

- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Non-blocking crossbar permutation engine with constant routing latency
[NASA-CASE-NPO-18864-1-CU] c 62 N94-17328

PACKETS (COMMUNICATION)

- Non-blocking crossbar permutation engine with constant routing latency
[NASA-CASE-NPO-18864-1-CU] c 62 N94-17328

PACKING DENSITY

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

PACKINGS (SEALS)

- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD

- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

PAINTS

- Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
An improved patch for radiative coolers
[NASA-CASE-GSC-13503-1] c 37 N94-20127

PALLADIUM

- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS

- Prevention of pressure build-up in electrochemical cells
Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS

- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10789
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Selective coating for solar panels — using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
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[NASA-CASE-MFS-23518-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings — for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
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[NASA-CASE-LEW-14035-1] c 07 N84-24577
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[NASA-CASE-NPO-15808-1] c 44 N84-34792
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022
Deployable reflector structure
[NASA-CASE-LAR-14513-1-SB] c 32 N94-29360

PANORAMIC SCANNING

- Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

PAPER (MATERIAL)

- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

PAPERS

- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS

- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth-monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns — parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Antenna surface contour control system
[NASA-CASE-LAR-13788-1] c 32 N89-25363

PARABOLIC REFLECTORS

- Parabolic reflector horn feed with spillover correction
Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
A satellite-tracking millimeter-wave reflector antenna system for mobile satellite-tracking
[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955

PARABOLOID MIRRORS

- Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

PARACHUTE DESCENT

- Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system
Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS

- Lightweight, variable solidity knitted parachute fabric — for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES

- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system — model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes — monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Parachute having improved vent line stacking
[NASA-CASE-MFS-28508-1] c 02 N94-11021

PARAGLIDERS

- Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL COMPUTERS

- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

PARALLEL PLATES

- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SUBJECT INDEX

Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

Consecutive plate acoustic suppressor apparatus and methods
[NASA-CASE-LEW-15430-1] c 71 N93-17051

Method for controlling protein crystallization
[NASA-CASE-MFS-28688-1] c 76 N94-20528

PARALLEL PROCESSING (COMPUTERS)

Digital data reformatting/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

Synchronous parallel system for emulation and discrete event simulation
[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

Digital parallel processor array for optimum path planning
[NASA-CASE-NPO-18727-1-CU] c 62 N93-28427

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

PARAMETER IDENTIFICATION

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

PARAMETRIC AMPLIFIERS

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARASITIC ELEMENTS (ANTENNAS)

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase
[NASA-CASE-XLA-00414] c 07 N70-38200

PARAWEBS

Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

PARKING

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

PARTIAL PRESSURE

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Converting a CO₂ atmosphere to a high-purity O₂ supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

PARTICLE ACCELERATION

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

PARTICLE ACCELERATOR TARGETS

Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767

Deuterium pass through target — neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

Closed loop spray cooling apparatus — for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602

Doppler shift system — system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310

Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

PARTICLE COLLISIONS

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

PARTICLE DENSITY (CONCENTRATION)

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY

Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE INTERACTIONS

Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

PARTICLE MASS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

Microbalance — for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

PARTICLE MOTION

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

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[NASA-CASE-LEW-11390-3] c 25 N76-29379

PARTICLE SIZE DISTRIBUTION

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

PARTICLE TRAJECTORIES

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

Direction sensitive laser velocimeter — determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Particle parameter analyzing system — x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

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PARTICULATE REINFORCED COMPOSITES

NiAl-base composite containing high volume fraction of AlN for advanced engines
[NASA-CASE-LEW-15818-1] c 24 N94-36752

PARTICULATE SAMPLING

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Electrophoretic sample insertion — device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401

Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

PARTICULATES

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

Spiral fluid separator
[NASA-CASE-MFS-28658-1] c 34 N94-20361

PASSAGEWAYS

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

PASSENGERS

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PASSIVITY

Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

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Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

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Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

Rapidly quantifying the relative distortion of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

PATTERN RECOGNITION

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N93-18282

Hidden Markov models for fault detection in dynamic systems
[NASA-CASE-NPO-18982-1-CU] c 38 N93-30413

PATTERN REGISTRATION

Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

PAYLOAD DELIVERY (STS)

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM**
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- PAYLOAD RETRIEVAL (STS)**
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- PAYLOADS**
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
- Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010
- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013
- Suspension system for gimbal supported scanning payloads
[NASA-CASE-MFS-28817-1] c 35 N94-29358
- PCM TELEMETRY**
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- PEELING**
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
- PEENING**
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- PELLETS**
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- PELTIER EFFECTS**
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[NASA-CASE-XGS-04808] c 03 N69-25146
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- PELVIS**
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
- PENETRANTS**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- PENETRATION**
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle — for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- PENETROMETERS**
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[NASA-CASE-XLA-00934] c 14 N71-22765
- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
- Penetrometer — for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION

- Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
- PERFLUORO COMPOUNDS**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
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[NASA-CASE-ARC-11425-3] c 23 N90-23475

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Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

PHOSPHORUS POLYMERS
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[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carbonylphosphazenes and their polymers — thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
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[NASA-CASE-ARC-11368-2] c 27 N85-21347

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Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

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Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

PHOTOCHEMICAL REACTIONS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Violet-violet process for producing flame resistant polyamides and products produced thereby — protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

PHOTOCROMISM
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

PHOTOCONDUCTIVE CELLS
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

PHOTOCONDUCTIVITY
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

PHOTOCONDUCTORS
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

PHOTODIODES
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Micro pulse laser radar
[NASA-CASE-GSC-13493-1] c 32 N94-23827

PHOTODISSOCIATION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

PHOTOELECTRIC CELLS
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Method of and device for determining the characteristics and flux distribution of micrometeorites — scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Photoelectric detection system — manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

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[NASA-CASE-XNP-04161] c 14 N71-15599

PHOTOELECTRIC EMISSION
High resolution threshold photoelectron spectroscopy by electron attachment
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PHOTOELECTRIC MATERIALS
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

PHOTOELECTRICITY
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

PHOTOELECTROCHEMICAL DEVICES
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[NASA-CASE-NPO-15458-1] c 25 N84-12262
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[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHOTOELECTRON SPECTROSCOPY
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

PHOTOELECTRONS
A quality monitor and monitoring technique employing optically stimulated electron emission
[NASA-CASE-LAR-15063-1] c 38 N93-30414

PHOTOGRAPHIC EMULSIONS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC EQUIPMENT
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[NASA-CASE-NPO-10174] c 14 N71-18465
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[NASA-CASE-GSC-12110-1] c 27 N77-32308

- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- PHOTOGRAPHIC FILM**
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Optical noise suppression device and method — laser light exposing film
[NASA-CASE-MS-C-12640-1] c 74 N76-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- PHOTOGRAPHIC MEASUREMENT**
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- PHOTOGRAPHIC PROCESSING**
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
- PHOTOGRAPHIC PROCESSING EQUIPMENT**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- PHOTOGRAPHIC RECORDING**
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Focused image holography with extended sources
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens — photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- PHOTOGRAPHY**
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
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[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- PHOTOIONIZATION**
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- PHOTOLYSIS**
Solar photolysis of water
[NASA-CASE-NPO-13875-1] c 44 N77-32580
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[NASA-CASE-NPO-14126-1] c 44 N79-11470
- PHOTOMAPPING**
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[NASA-CASE-MS-C-19442-1] c 74 N77-10899
- PHOTOMASKS**
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
- PHOTOMECHANICAL EFFECT**
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[NASA-CASE-NPO-14363-1] c 39 N81-25400
- PHOTOMETERS**
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector — device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer — particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N83-11058
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N93-13419
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[NASA-CASE-GSC-13562-1] c 61 N94-15703
- PHOTOMICROGRAPHY**
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[NASA-CASE-ARC-10468-1] c 14 N73-33361
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[NASA-CASE-NPO-16299-1] c 33 N87-14594
- PHOTOMULTIPLIER TUBES**
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof — and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- PHOTON BEAMS**
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- PHOTON-ELECTRON INTERACTION**
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- PHOTONS**
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
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Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
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- PHOTOSENSITIVITY**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
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[NASA-CASE-MS-C-10966] c 14 N71-19568
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
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[NASA-CASE-MFS-22040-1] c 35 N74-26946
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[NASA-CASE-MFS-22208-1] c 33 N75-26244
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[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- PHOTOTHERMAL CONVERSION**
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[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- PHOTOTRANSISTORS**
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Phototransistor
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[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
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[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
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[NASA-CASE-NPO-18497-1-CU] c 63 N93-24599
- PHOTOTROPISM**
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- PHOTOVISCOELASTICITY**
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- PHOTOVOLTAIC CELLS**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
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[NASA-CASE-MFS-22458-1] c 44 N77-10635
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[NASA-CASE-LEW-12819-1] c 44 N79-11467
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
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Copper doped polycrystalline silicon solar cell
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Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
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[NASA-CASE-LEW-13400-1] c 44 N82-31764
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- PHOTOVOLTAIC EFFECT**
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MS-C-12259-1] c 07 N70-12616
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[NASA-CASE-NPO-11432-2] c 35 N74-15090
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- PHTHALATES**
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- Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins [NASA-CASE-ARC-11424-1] c 27 N85-34281
- Metal phthalocyanine intermediates for the preparation of polymers [NASA-CASE-ARC-11405-2] c 27 N86-19455
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile [NASA-CASE-ARC-11511-2] c 27 N87-21112
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- Restraint system for ergometer [NASA-CASE-MFS-21046-1] c 14 N73-27377
- Tilting table for ergometer and for other biomedical devices [NASA-CASE-MFS-21010-1] c 05 N73-30078
- Manual actuator — for spacecraft exercising machines [NASA-CASE-MFS-21481-1] c 37 N74-18127
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- System for monitoring physical characteristics of fluids [NASA-CASE-NPO-15400-1] c 34 N83-31993
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- Apparatus and method for measuring subject work rate on an exercise device [NASA-CASE-MSC-21752-1] c 54 N94-20194
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- Restraint torso for a pressurized suit [NASA-CASE-MSC-12397-1] c 05 N72-25119
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- Medical subject monitoring systems — multichannel monitoring systems [NASA-CASE-MSC-14180-1] c 52 N76-14757
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- Method of detecting and counting bacteria [NASA-CASE-GSC-11917-2] c 51 N76-29891
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- Protein crystal growth tray assembly [NASA-CASE-MFS-28507-1] c 76 N92-34171
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- PIEZOELECTRIC CRYSTALS**
- Miniature stress transducer Patent [NASA-CASE-XNP-02983] c 14 N71-21091
- Ultra-stable oscillator with complementary transistors [NASA-CASE-GSC-11513-1] c 33 N74-20862
- CDS solid state phase insensitive ultrasonic transducer — annealing cadmium sulfide crystals [NASA-CASE-LAR-12304-1] c 35 N80-20559
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- Torque sensor having a spoked sensor element support structure [NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- PIEZOELECTRIC TRANSDUCERS**
- Force transducer Patent [NASA-CASE-XAC-01101] c 14 N70-41957
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent [NASA-CASE-NPO-10144] c 14 N71-17701
- Phonocardiograph transducer Patent [NASA-CASE-XMS-05365] c 14 N71-22993
- Semiconductor transducer device [NASA-CASE-ERC-10087-2] c 14 N72-31446
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- Missile stage separation indicator and stage initiator Patent [NASA-CASE-XLA-00791] c 03 N70-39930
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- Miniature stress transducer Patent [NASA-CASE-XNP-02983] c 14 N71-21091
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- PIGMENTS**
- Stabilized zinc oxide coating compositions Patent [NASA-CASE-XMF-07770-2] c 18 N71-26772
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- Controlled visibility device for an aircraft Patent [NASA-CASE-XFR-04147] c 11 N71-10748
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- PILOTS (PERSONNEL)**
- System for indicating direction of intruder aircraft [NASA-CASE-ERC-10226-1] c 14 N73-16483
- PINCH EFFECT**
- Toggle mechanism for pinching metal tubes. [NASA-CASE-GSC-12274-1] c 37 N79-28550
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- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects [NASA-CASE-GSC-12851-1] c 35 N85-30281
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- Fatigue-resistant shear pin [NASA-CASE-XLA-09122] c 15 N69-27505
- Turbo-machine blade vibration damper Patent [NASA-CASE-XLE-00155] c 28 N71-29154
- Safety-type locking pin [NASA-CASE-MFS-18495] c 15 N72-11385
- Self-locking double retention redundant full pin release [NASA-CASE-NPO-16233-1] c 37 N86-20801
- Method and apparatus for releasably connecting first and second objects [NASA-CASE-MSC-21517-1] c 31 N92-16161
- Coupling device with improved thermal interface [NASA-CASE-GSC-13251-1] c 37 N92-29120
- PINTLES**
- Metal valve pintle with encapsulated elastomeric body Patent [NASA-CASE-MSC-12116-1] c 15 N71-17648
- PIPE FLOW**
- Flat-plate heat pipe [NASA-CASE-GSC-11998-1] c 34 N77-32413
- Monogroove heat pipe design: insulated liquid channel with bridging wick [NASA-CASE-MSC-20497-1] c 34 N85-29180
- Energy efficient continuous flow ash lockhopper [NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
- PIPELINES**
- Spherical shield Patent [NASA-CASE-XNP-01855] c 15 N71-26937
- Mechanized fluid connector and assembly tool system with ball detents [NASA-CASE-MSC-21434-1] c 37 N92-10197
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- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter [NASA-CASE-NPO-15519-1] c 32 N84-34651
- Neighborhood comparison operator [NASA-CASE-NPO-16484-1CU] c 60 N86-24224
- Real time pipelined system for forming the sum of products in the processing of video data [NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
- Programmable pipelined image processor [NASA-CASE-NPO-16461-1CU] c 60 N89-26400
- Highly parallel computer architecture for robotic computation [NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- PIPES (TUBES)**
- Device for determining the accuracy of the flare on a flared tube [NASA-CASE-XKS-03495] c 14 N69-39785
- Piping arrangement through a double chamber structure [NASA-CASE-XNP-08882] c 15 N69-39935
- Foldable conduit Patent [NASA-CASE-XLE-00620] c 32 N70-41579
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[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

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- In situ self cross-linking of polyvinyl alcohol battery separators
 [NASA-CASE-LEW-12972-1] c 44 N79-25481
 Method of cross-linking polyvinyl alcohol and other water soluble resins
 [NASA-CASE-LEW-13103-1] c 27 N80-32516
 In-situ cross linking of polyvinyl alcohol — application to battery separator films
 [NASA-CASE-LEW-13135-2] c 27 N81-24257
 Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
 [NASA-CASE-LEW-13556-1] c 44 N81-27615
 Cross-linked polyvinyl alcohol and method of making same
 [NASA-CASE-LEW-13101-2] c 23 N81-29160
 Polyvinyl alcohol cross-linked with two aldehydes
 [NASA-CASE-LEW-13504-1] c 25 N83-13188
 Ion exchange polymers and method for making
 [NASA-CASE-LEW-15576-1] c 27 N93-31316

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- Hydraulic lifting device
 [NASA-CASE-SSC-00008-1] c 37 N91-13733

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- Stable density stratification solar pond
 [NASA-CASE-NPO-15419-2] c 44 N85-30474

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- Refractory porcelain enamel passive control coating for high temperature alloys
 [NASA-CASE-MFS-22324-1] c 27 N75-27160

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- Process for making sheets with parallel pores of uniform size
 [NASA-CASE-GSC-10984-1] c 37 N75-26371
 Krypton based adsorption type cryogenic refrigerator
 [NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
 Porous plug for reducing orifice induced pressure error in airfoils
 [NASA-CASE-LAR-13569-1] c 35 N89-12841
 Method for maintaining precise suction strip porosities
 [NASA-CASE-LAR-13638-1] c 31 N90-19427
 Regenerative Cu/La zeolite supported desulfurizing sorbents
 [NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
 Toughened uni-piece fibrous insulation
 [NASA-CASE-ARC-11888-1] c 24 N92-16026
 Passive control of pressure loads using porosity
 [NASA-CASE-LAR-14547-1] c 34 N92-17909
 Control and augmentation of passive porosity through transpiration control
 [NASA-CASE-LAR-14682-1] c 34 N92-30387
 Selective formation of porous silicon
 [NASA-CASE-NPO-18735-1-CU] c 27 N94-15960

POROUS BOUNDARY LAYER CONTROL

- Boundary layer control device for duct silencers
 [NASA-CASE-ARC-12030-1] c 71 N94-29362

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- Method of producing refractory bodies having controlled porosity Patent
 [NASA-CASE-LEW-10393-1] c 17 N71-15468
 Multilayer porous ionizer Patent
 [NASA-CASE-XNP-04338] c 17 N71-23046
 Fluid lubricant system Patent
 [NASA-CASE-XNP-03972] c 15 N71-23048
 Method and device for detecting voids in low density material Patent
 [NASA-CASE-MFS-20044] c 14 N71-28993
 Fabrication of controlled-porosity metals Patent
 [NASA-CASE-XNP-04339] c 17 N71-29137
 Compressible biomedical electrode
 [NASA-CASE-MSC-13648] c 05 N72-27103
 Porous electrode comprising a bonded stack of pieces of corrugated metal foil
 [NASA-CASE-GSC-11368-1] c 09 N73-32108
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 [NASA-CASE-GSC-11367-1] c 44 N74-19692
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 [NASA-CASE-MSC-12731-1] c 37 N78-25426
 Heat exchanger and method of making — bonding rocket chambers with a porous metal matrix
 [NASA-CASE-LEW-12441-1] c 34 N79-13289
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 [NASA-CASE-LEW-12131-3] c 37 N82-19540
 Densification of porous refractory substrates — space shuttle orbiter tiles
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 [NASA-CASE-MSC-18736-1] c 24 N83-13172
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 [NASA-CASE-LEW-13171-2] c 44 N83-32176
 Water-absorbing capacitor system for measuring relative humidity
 [NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

- Control and augmentation of passive porosity through transpiration control
 [NASA-CASE-LAR-14682-1] c 34 N92-30387
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 [NASA-CASE-MSC-21487-2] c 24 N93-29023
 Buried porous silicon-germanium layers in monocrystalline silicon lattices and method of producing
 [NASA-CASE-NPO-18836-1-CU] c 76 N94-17327
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 [NASA-CASE-MSC-21487-3] c 25 N94-35229

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- Method of producing porous tungsten ionizers for ion rocket engines Patent
 [NASA-CASE-XLE-00455] c 28 N70-38197
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- Method and apparatus for eliminating luminol interference material
 [NASA-CASE-MSC-16260-1] c 51 N80-16714

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- Split welding chamber Patent
 [NASA-CASE-LEW-11531] c 15 N71-14932
 Portable superclean air column device Patent
 [NASA-CASE-XMF-03212] c 15 N71-22721
 Weld preparation machine Patent
 [NASA-CASE-XKS-07953] c 15 N71-26134
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114-2] c 15 N71-26148
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 [NASA-CASE-NPO-10467] c 23 N71-26654
 Boring bar drive mechanism Patent
 [NASA-CASE-XLA-03661] c 15 N71-33518
 One hand backpack harness
 [NASA-CASE-LAR-10102-1] c 05 N72-23085
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 [NASA-CASE-MFS-20774] c 14 N73-19420
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 [NASA-CASE-NPO-13274-1] c 25 N79-10163
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 [NASA-CASE-FRC-10113-1] c 33 N80-26599
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 [NASA-CASE-GSC-12399-1] c 33 N81-25299
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 [NASA-CASE-ARC-11354-1] c 74 N83-21949
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 [NASA-CASE-NPO-13556-1] c 35 N84-33766
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 [NASA-CASE-GSC-12789-1] c 35 N85-20294
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 [NASA-CASE-NPO-15790-1] c 36 N85-21631
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 [NASA-CASE-MSC-20250-1] c 35 N86-19581
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- Portable breathing system — a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
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- Evacuation port seal Patent
 [NASA-CASE-XMF-03290] c 15 N71-23256
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 [NASA-CASE-GSC-12513-1] c 31 N81-19343

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- Position location system and method Patent
 [NASA-CASE-GSC-10087-2] c 21 N71-13958
 Position location and data collection system and method Patent
 [NASA-CASE-GSC-10083-1] c 30 N71-16090
 Emergency escape system Patent
 [NASA-CASE-XKS-07814] c 15 N71-27067

- Position location system and method
 [NASA-CASE-GSC-10087-3] c 07 N72-12080
 Location identification system
 [NASA-CASE-ERC-10324] c 07 N72-25173
 Cosmic dust or other similar outer space particles impact location detector
 [NASA-CASE-GSC-11291-1] c 25 N72-33696
 Collimator of multiple plates with axially aligned identical random arrays of apertures
 [NASA-CASE-MFS-20546-2] c 14 N73-30389
 Measuring probe position recorder
 [NASA-CASE-LAR-10806-1] c 35 N74-32877
 Vehicle locating system utilizing AM broadcasting station carriers
 [NASA-CASE-NPO-13217-1] c 32 N75-26194
 Impact position detector for outer space particles
 [NASA-CASE-GSC-11829-1] c 35 N75-27331
 Aircraft-mounted crash-activated transmitter device
 [NASA-CASE-MFS-16609-3] c 03 N76-32140
 Twin-capacitive shaft angle encoder with analog output signal
 [NASA-CASE-ARC-10897-1] c 33 N77-31404
 X-ray position detector
 [NASA-CASE-NPO-12087-1] c 74 N81-19898
 Adjustable indicating device for load position
 [NASA-CASE-MFS-28008-1] c 35 N85-20300
 Controlled sample orientation and rotation in an acoustic levitator
 [NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
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 [NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
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 [NASA-CASE-MFS-28013-2] c 89 N91-14096
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 [NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
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 [NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
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- Force reflection with compliance control
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- Scanning aspect sensor employing an apertured disc and a commutator
 [NASA-CASE-XGS-08266] c 14 N69-27432
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 [NASA-CASE-XMF-00447] c 14 N70-33179
 Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
 [NASA-CASE-XGS-07514] c 23 N71-16099
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 [NASA-CASE-XGS-05680] c 14 N71-17585
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 [NASA-CASE-GSC-10087-4] c 07 N73-20174
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 Position determination systems — using orbital antenna scan of celestial bodies
 [NASA-CASE-MSC-12593-1] c 17 N76-21250
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 [NASA-CASE-LAR-11999-1] c 44 N80-18552
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 Aircraft control position indicator
 [NASA-CASE-LAR-12984-1] c 06 N87-22678
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- Sample positioning in microgravity
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- Capacitance camera
[NASA-CASE-GSC-13564-1] c 35 N94-15872
- Double-driven shield capacitive type proximity sensor
[NASA-CASE-GSC-13541-1] c 63 N94-15946
- Rotary encoding device using polygonal mirror with diffraction gratings on each facet
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- POSITIONING**
- Instrument support with precise lateral adjustment Patent
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- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Null device for hand controller Patent
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- Rotating raster generator
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[NASA-CASE-NPO-10679] c 15 N72-21462
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- Specialized halogen generator for purification of water Patent
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- Potable water dispenser
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- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

- Degassifying and mixing apparatus for liquids — potable water for spacecraft
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- Ceramic fiber reinforced glass-ceramic matrix composite
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- Vacuum powder injector and method of impregnating fiber with powder
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- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
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- Method of forming articles of manufacture from superalloy powders
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- Cermet composition and method of fabrication — heat resistant alloys and powders
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- Oxidation resistant slurry coating for carbon-based materials
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- Method of coating a substrate with a rapidly solidified metal
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- Method of making carbide/fluoride/silver composites
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- NIAl-base composite containing high volume fraction of AlN for advanced engines
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- Signal path series step biased multidevice high efficiency amplifier Patent
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- Isolated output system for a class D switching-mode amplifier
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- Low power consumption current transducer
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- Motor power control circuit for ac induction motors
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- Solar powered actuator with continuously variable auxiliary power control
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Phase modulating with odd and even finite power series of a modulating signal
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Method and apparatus for high resolution spectral analysis
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Instrument for determining coincidence and elapse time between independent sources of random sequential events
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Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698

Current dependent filter inductance
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Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391

High voltage distributor
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Method and apparatus for precision control of radiometer
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Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055

Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
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[NASA-CASE-NPO-10716] c 09 N71-24892

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High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

Ripple indicator
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A dc to ac to dc converter having transistor synchronous rectifiers
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LC-oscillator with automatic stabilized amplitude via bias current control — power supply circuit for transducers
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Integrable power gyrator — with Z-matrix design using parallel transistors
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[NASA-CASE-NPO-13512-1] c 33 N77-10428

Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

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[NASA-CASE-LEW-12780-1] c 20 N79-20179

Three phase power factor controller
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Power factor control system for ac induction motors
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Triac failure detector
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Arc lamp power supply using a voltage multiplier
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Dynamic precession damper for spin stabilized vehicles Patent
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Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

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Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

Electronic precipitator control
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Lightweight piston architecture
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Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
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Structural wood panels with improved fire resistance
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Method for forming pyrrone molding powders and products of said method
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[NASA-CASE-LEW-12164-1] c 36 N77-32478

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788

Method and apparatus for detection and control of prelasers in a Q-switched laser
[NASA-CASE-LAR-14790-1] c 36 N93-19373

Laser with optically driven Q-switch
[NASA-CASE-NPO-18470-1-CU] c 36 N94-15932

Q VALUES
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

QUADRANTS
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

QUADRATIC PROGRAMMING
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

QUADRATURES
Automatic quadrature control and measuring system — using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

QUALITATIVE ANALYSIS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

Analysis of volatile organic compounds — trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

QUANTITATIVE ANALYSIS
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199

Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141

Analysis of volatile organic compounds — trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Electrophoretic oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

QUANTUM THEORY
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

QUANTUM WELLS
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418

Long wavelength infrared detector
[NASA-CASE-NPO-17543-2-CU] c 35 N93-19387

QUARTZ
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Amplitude sealing apparatus and process — for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

QUARTZ LAMPS
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312

Light shield and cooling apparatus — high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

QUEUEING THEORY
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N93-20116

QUINOXALINES

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups — for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

R

RACKS (FRAMES)

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Thrust-isolating mounting — characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

RADAR ANTENNAS

Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

Variable beamwidth antenna — with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

RADAR ATTENUATION

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR BEACONS

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

RADAR BEAMS

Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR CROSS SECTIONS

Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

RADAR DATA

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

RADAR DETECTION

Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR ECHOES

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR IMAGERY

Method of locating persons in distress — by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
- RADAR MEASUREMENT**
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- RADAR RANGE**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Method for ambiguity resolution in range-Doppler measurements
[NASA-CASE-GSC-13542-1] c 32 N94-29739
- RADAR RECEIVERS**
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- RADAR RECEPTION**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- RADAR REFLECTORS**
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Method of locating persons in distress — by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- RADAR TARGETS**
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
Method for ambiguity resolution in range-Doppler measurements
[NASA-CASE-GSC-13542-1] c 32 N94-29739
- RADAR TRACKING**
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Motion-sensitive optical correlator
[NASA-CASE-NPO-18769-1-CU] c 74 N93-28133
- RADAR TRANSMITTERS**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- RADIAL DISTRIBUTION**
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- RADIAL FLOW**
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- RADIANCE**
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
- RADIANT COOLING**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
An improved patch for radiative coolers
[NASA-CASE-GSC-13503-1] c 37 N94-20127
- RADIANT FLUX DENSITY**
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- RADIANT HEATING**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer — thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- RADIATION**
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- RADIATION ABSORPTION**
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION COUNTERS**
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Particle parameter analyzing system — x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- RADIATION DAMAGE**
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof — and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- RADIATION DETECTORS**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Wide angle sun sensor — consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N94-35383
- RADIATION DISTRIBUTION**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION DOSAGE**
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Aberration correction of unstable resonators
[NASA-CASE-NPO-18791-1-CU] c 35 N94-15987
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION EFFECTS**
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N94-20372
- RADIATION HARDENING**
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- RADIATION HAZARDS**
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- RADIATION MEASUREMENT**
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- RADIATION MEASURING INSTRUMENTS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE
Method of producing I-123 — by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat
Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof — and protection from radiation damage
[NASA-CASE-ARC-10583-1] c 33 N74-27682
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

RADIATION PYROMETERS
Correction-free pyrometry in radiant wall furnaces
[NASA-CASE-NPO-18655-1-CU] c 35 N94-35114
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N94-35383

RADIATION SHIELDING
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Light shield and cooling apparatus — high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151

RADIATION SOURCES
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Radiant source tracker independent of nonconstant radiance
[NASA-CASE-NPO-11686] c 14 N73-25462
High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Multispectral variable magnification glancing incidence ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

RADIATION SPECTRA
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATIVE HEAT TRANSFER
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Apparatus and method for heating a material in a transparent ampoule — crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
Optically-switched submillimeter-wave oscillator and radiator
[NASA-CASE-NPO-18547-1-CU] c 33 N94-17324

RADIO ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

RADIO ASTRONOMY
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13621-1] c 44 N78-28594
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

RADIO COMMUNICATION
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO CONTROL
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

RADIO EQUIPMENT
System for synchronizing synthesizers of communication systems
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[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Tuned mass damper for integrally bladed turbine rotor
[NASA-CASE-MFS-28697-1] c 37 N94-29353

ROTOR LIFT

ROTOR LIFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTOR

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099

Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N94-10669

System and method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-1] c 34 N94-20588

Rotary blood pump
[NASA-CASE-MSC-22424-1] c 37 N94-29370

Method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-2] c 34 N94-29740

RUBBER

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N93-22035

RUBBER COATINGS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

RUPTURING

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

S

S WAVES

Jet mixer noise suppressor using acoustic feedback
[NASA-CASE-LEW-15170-1] c 71 N93-28953

SABOT PROJECTILES

Hypervelocity gun — using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335

Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706

Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Totally confined explosive welding — apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

SAFETY FACTORS

Safety flywheel — using flexible materials energy storage
[NASA-CASE-HON-10888-1] c 44 N79-14527

Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

SAHA EQUATIONS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395

Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SAMPLES

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435

Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Rock sampling — apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068

Rock sampling — method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069

Apparatus for microbiological sampling — including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384

Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157

Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

Extended task space control for robotic manipulators
[NASA-CASE-NPO-18902-1-CU] c 37 N93-28129

Two-stage gas measurement system
[NASA-CASE-LAR-14791-1] c 35 N93-31297

SANDWICH STRUCTURES

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700

Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022

SAPPHIRE

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200

Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Microwave switching power divider — antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

SATELLITE ATTITUDE CONTROL

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089

Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855

Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Spacecraft attitude control method and apparatus
[NASA-CASE-HON-10439] c 21 N72-21624

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13844

Combination automatic-starting electrical plasma torch and gas shutoff valve — for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426

Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

SATELLITE COMMUNICATION
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

SATELLITE CONTROL
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

SATELLITE DESIGN
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

SATELLITE INSTRUMENTS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

SATELLITE NETWORKS
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

SATELLITE OBSERVATION
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

SATELLITE ORBITS
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

SATELLITE ORIENTATION
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

SATELLITE PERTURBATION
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SATELLITE POWER TRANSMISSION
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N94-20587

SATELLITE ROTATION
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

SATELLITE TELEVISION
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

SATELLITE TRACKING
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

A satellite-tracking millimeter-wave reflector antenna system for mobile satellite-tracking
[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955

SATELLITE TRANSMISSION
Asynchronous, multiplexing, single line transmission and recovery data system — for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

SATELLITE-BORNE INSTRUMENTS

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SATELLITE-BORNE PHOTOGRAPHY

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly — for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

Scanner — photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SATURABLE REACTORS

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

SATURATION

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

SAWS

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655

SAWTOOTH WAVEFORMS

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

SCALE MODELS

Improved ceramic slip casting technique — application to aircraft model fabrication
[NASA-CASE-LAR-14471-1] c 27 N94-20377

SCANNERS

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172

Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Scanner — photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491

Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

Display system employing acousto-optic tunable filter
[NASA-CASE-NPO-18736-1-CU] c 74 N94-15933

Suspension system for gimbal supported scanning payloads
[NASA-CASE-MFS-28817-1] c 35 N94-29358

SCANNING

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189

Position determination systems — using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

SCATTERING CROSS SECTIONS

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

SCENE ANALYSIS

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

SCHLIEREN PHOTOGRAPHY

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

SCHMIDT CAMERAS

Cooled echelle grating spectrometer — for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

SCHMIDT TELESCOPES

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

SCHOOLS

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

SCHOTTKY DIODES

High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526

Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467

Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525

Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

SCIENTIFIC SATELLITES

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

SCOOPS

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

SCORING

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

SCRAMBLING (COMMUNICATION)

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SCREWS

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

Spine screw autochanger
[NASA-CASE-GSC-13435-1] c 37 N93-29505

Three point lead screw positioning apparatus for a cavity tuning plate
[NASA-CASE-LEW-15216-1] c 37 N94-20375

Spine screw multiple rotations mechanism
[NASA-CASE-GSC-13452-1] c 37 N94-23078

Split spine screw
[NASA-CASE-GSC-13434-1] c 37 N94-23082

SCRUBBERS
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

SEA ICE

A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SEA STATES

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

SEA SURFACE TEMPERATURE

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SEALERS

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

SEALING

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451

Ampoule sealing apparatus and process — for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

Canister clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175

Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N93-14702

Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N93-14706

SEALS (STOPPERS)

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320

Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376

Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Spiral groove seal — for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

High speed, self-acting shaft seal — for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Counter pumping debris excluder and separator — gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Composite seal for turbomachinery — backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Continuous self-locking spiral wound seal — for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N93-14702

Check valve with poppet damping mechanism
[NASA-CASE-MSC-21903-1] c 37 N94-10655

Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N94-10669

High-temperature, bellows hybrid seal
[NASA-CASE-LEW-15570-1] c 37 N94-35373

SEAMS (JOINTS)

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

Chamber free fusion welding root side purging method and apparatus
[NASA-CASE-MFS-28832-1] c 26 N94-29380

SEARCHING

Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

SEAT BELTS

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

Passive zero-gravity leg restraint
[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713

SECONDARY EMISSION

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

SECONDARY FLOW

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752

SECTORS

Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEEDS

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

SEEPAGE

Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

SEGMENTS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

SEISMIC WAVES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Underwater seismic source — for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

SEISMOGRAPHS

Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTORS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ADAPTIVE CONTROL SYSTEMS

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

SELF ALIGNMENT

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Electrical self-aligning connector — orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

SELF ERECTING DEVICES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135

Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373

Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N94-20196

SELF FOCUSING

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS

- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION

- Method of making bearing materials — self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS

- Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION

- Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING

- Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N93-22032

SEMICONDUCTING FILMS

- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413

SEMICONDUCTOR DEVICES

- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
- Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
- Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- Office gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Process for fabricating SiC semiconductor devices

- [NASA-CASE-LEW-12094-1] c 76 N76-25049
- Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Electrical power generating system — for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413
- Semiconductor cooling apparatus
[NASA-CASE-LEW-14162-3] c 24 N93-29614
- Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N94-20491

SEMICONDUCTOR DIODES

- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

SEMICONDUCTOR JUNCTIONS

- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Method of measuring field tunneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N81-27614

SEMICONDUCTOR LASERS

- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
- Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N93-18277
- Laser with optically driven Q-switch
[NASA-CASE-NPO-18470-1-CU] c 36 N94-15932

SEMICONDUCTORS (MATERIALS)

- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

Method of making impurity-type semiconductor electrical contacts Patent

- [NASA-CASE-XMF-01016] c 26 N71-17818
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Vapor deposition apparatus — semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614
- INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
- Method for producing a hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N94-10656
- Monolithic in-based III-V compound semiconductor focal plane array cell with single stage CCD output
[NASA-CASE-NPO-18978-1-CU] c 33 N94-29488
- Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501
- InP solar cell with window layer
[NASA-CASE-LEW-15606-1] c 44 N94-35230

SENSITIVITY

- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

SENSITOMETRY

- Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

SENSORS

- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
- System for memorizing maximum values
[NASA-CASE-MSC-21922-1] c 35 N93-14841
- Optical fiber strain sensor with improved linearity
[NASA-CASE-LAR-14857-1-SB] c 74 N93-19374

SENSORY PERCEPTION

- Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493
- Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N93-20118
- Optical fibers and Fused sensors having improved power efficiency and methods of producing same
[NASA-CASE-LAR-14525-1-CU] c 74 N94-20378
- ### SENSORY PERCEPTION
- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- ### SEPARATED FLOW
- Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
- Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
- Stall departure resistance enhancer
[NASA-CASE-LAR-14221-1] c 06 N93-19023
- ### SEPARATION
- Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
- Acoustophoresis separation method
[NASA-CASE-LAR-13388-2] c 25 N93-20570
- ### SEPARATORS
- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
- Counter pumping debris excluder and separator — gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- In situ self cross-linking of polyvinyl alcohol battery separators
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- Three stage rocket vehicle with parallel staging
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- Electronic checkout system for space vehicles Patent
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- Nano-G research laboratory for a spacecraft
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- Attitude sensor for space vehicles Patent
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- Solid state thermal control polymer coating Patent
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- Method of making a composite sandwich lattice structure
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[NASA-CASE-XNP-09452] c 15 N69-27504

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974

Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

Mechanical energy absorber
[NASA-CASE-MSC-22111-1] c 37 N94-15966

Manufacturing methods for machining spring ends parallel at loaded length
[NASA-CASE-MFS-28767-1] c 31 N94-29379

Variable stiffness torsion springs
[NASA-CASE-MFS-28930-1] c 70 N94-36782

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[NASA-CASE-ERC-10120] c 26 N69-33482

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

Method and apparatus for sputtering utilizing an aperture electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

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[NASA-CASE-LEW-13169-1] c 26 N82-29415

Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

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[NASA-CASE-LEW-12941-1] c 26 N83-10170

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[NASA-CASE-LEW-13837-1] c 24 N84-22695

Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

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High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

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Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

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Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

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Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

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Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602

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Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635

Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566

Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277

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[NASA-CASE-LAR-12268-1] c 08 N81-24106

Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

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Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146

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Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

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[NASA-CASE-LAR-10682-1] c 02 N73-26004

Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

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[NASA-CASE-XMS-03252] c 15 N71-10658

Failure detection and control means for improved drift performance of a gimbalized platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

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[NASA-CASE-XMF-08523] c 31 N71-20396

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[NASA-CASE-XMF-00641] c 31 N70-36410

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422

Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

Apparatus and method for improving spin recovery on aircraft
[NASA-CASE-LAR-14747-1] c 08 N94-20556

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Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

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[NASA-CASE-MFS-21675-1] c 25 N74-33378

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[NASA-CASE-XLA-02854] c 15 N69-27490

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[NASA-CASE-XLA-00791] c 03 N70-39930

Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

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[NASA-CASE-XLA-05369] c 31 N71-15687

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

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[NASA-CASE-XLA-04804] c 31 N71-23008

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[NASA-CASE-XKS-04631] c 10 N71-23663

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[NASA-CASE-MSC-11849-1] c 15 N72-22488

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[NASA-CASE-XFR-02007] c 12 N71-24692

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[NASA-CASE-LAR-11139-1] c 35 N74-32878

Probe shapes that measure time-averaged streamwise momentum and cross-stream turbulence intensity
[NASA-CASE-ARC-11934-1] c 34 N94-23077

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[NASA-CASE-XLE-00266] c 14 N70-34156

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[NASA-CASE-LAR-11649-1] c 51 N77-27677

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Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515

Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Moving body velocity arresting line — stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

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- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
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[NASA-CASE-MSC-21776-1] c 31 N92-33612

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[NASA-CASE-GSC-12619-1] c 37 N84-12491
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- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
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[NASA-CASE-LAR-13153-1] c 71 N86-21276
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[NASA-CASE-MFS-28183-1] c 74 N89-13253

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- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
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[NASA-CASE-LAR-12633-1] c 33 N82-24416
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[NASA-CASE-NPO-15562-1] c 71 N82-27086
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[NASA-CASE-NPO-15522-1] c 71 N83-32516
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[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
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[NASA-CASE-NPO-18191-1-CU] c 09 N93-24601

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- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
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[NASA-CASE-XGS-01159] c 21 N71-10678
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[NASA-CASE-XNP-03914] c 21 N71-10771
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[NASA-CASE-NPO-11253] c 09 N72-17157
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[NASA-CASE-GSC-11188-2] c 21 N73-19630
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- Resonant waveguide stark cell — using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
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[NASA-CASE-NPO-11945-1] c 36 N76-18427
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[NASA-CASE-NPO-14143-1] c 25 N81-14015
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[NASA-CASE-NPO-15102-1] c 25 N81-25159

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- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
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[NASA-CASE-NPO-13374-1] c 33 N75-19524
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- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
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[NASA-CASE-LEW-14374-1] c 09 N88-28939

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- Static inverters which sum a plurality of waves Patent
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[NASA-CASE-XGS-05289] c 09 N71-19470

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- Instrument for measuring torsional creep and recovery Patent
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[NASA-CASE-XMS-04545] c 15 N71-22878
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[NASA-CASE-LEW-12358-1] c 44 N79-17313
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Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

Overcharge and overdischarge protection of ambient temperature secondary lithium cells
[NASA-CASE-NPO-18343-1-CU] c 33 N94-23823
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[NASA-CASE-NPO-18877-1-CU] c 33 N94-29357
Dendrite preventing separator for secondary lithium batteries
[NASA-CASE-NPO-18585-1-CU] c 33 N94-29411

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[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

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Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
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[NASA-CASE-ARC-11157-1] c 37 N80-18393
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[NASA-CASE-MSC-21056-1] c 18 N88-23827
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[NASA-CASE-LAR-13580-1] c 37 N91-21541

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[NASA-CASE-XLA-00492] c 14 N70-34799
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[NASA-CASE-MFS-12827] c 14 N71-17656
Dual strain gage balance system for measuring light loads
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[NASA-CASE-XLE-00023] c 15 N70-33330
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[NASA-CASE-XMF-00456] c 14 N70-34705
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[NASA-CASE-XNP-08274] c 10 N71-13537
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[NASA-CASE-XNP-09205] c 14 N71-17657
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[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
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[NASA-CASE-XLA-04555-1] c 14 N71-25892
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[NASA-CASE-FRC-10036] c 09 N72-22200
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[NASA-CASE-MFS-20506-1] c 35 N75-12273
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[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
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Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
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[NASA-CASE-FRC-10093-1] c 35 N80-20560
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
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[NASA-CASE-LAR-12772-1] c 33 N83-16626
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[NASA-CASE-FRC-11068-1] c 35 N84-12443
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[NASA-CASE-WLP-10055-1] c 35 N84-28015
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[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer — suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
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[NASA-CASE-LAR-13797-1] c 35 N88-30108
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[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
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[NASA-CASE-LAR-14776-1] c 35 N93-12205
Apparatus and method for measuring subject work rate on an exercise device
[NASA-CASE-MSC-21752-1] c 54 N94-20194

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[NASA-CASE-WLP-10055-2] c 35 N85-21598
Radio Frequency (RF) strain monitor
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Optical fiber strain sensor with improved linearity
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[NASA-CASE-LAR-13630-1] c 08 N88-23809
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[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

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[NASA-CASE-ARC-11157-1] c 37 N80-18393
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[NASA-CASE-LAR-10765-1] c 32 N73-20740
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[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method of characterizing residual stress in ferromagnetic materials using a pulse histogram of acoustic emission signals
[NASA-CASE-LAR-14239-1] c 26 N93-14705
Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N93-20118

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- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
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[NASA-CASE-XLA-07390] c 15 N71-18616

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- Shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1-CU] c 39 N93-29613

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- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
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[NASA-CASE-XLA-08530] c 32 N71-25360
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[NASA-CASE-LAR-11825-1] c 35 N77-22449
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[NASA-CASE-LAR-12016-1] c 39 N78-15512
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Shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1-CU] c 39 N93-29613
Method of determining shear stress employing a monomer-polymer laminate structure
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- Method for alleviating thermal stress damage in laminates — metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

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- All-directional fastener Patent
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[NASA-CASE-XGS-08259] c 14 N71-23698
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[NASA-CASE-XGS-04478] c 14 N71-24233
Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
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Fixture for environmental exposure of structural materials under compression load
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- Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

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[NASA-CASE-LAR-13489-1] c 18 N87-27713

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[NASA-CASE-MFS-23845-1] c 33 N81-17348
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[NASA-CASE-LEW-15263-2] c 24 N94-15929

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[NASA-CASE-MSC-19442-1] c 74 N77-10899

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[NASA-CASE-XMS-00863] c 05 N70-34857
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[NASA-CASE-FRC-10063] c 01 N71-12217
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[NASA-CASE-MFS-28110-1] c 37 N87-24689

Improved method and apparatus for waste collection and storage
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[NASA-CASE-ARC-11505-2] c 18 N89-25266

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[NASA-CASE-ARC-11635-1] c 18 N90-16860

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[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

Releasable clamping apparatus
[NASA-CASE-MFS-28182-1] c 37 N90-17154

Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

Hybrid butterfly valve
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Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157

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Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

Composite passive damping struts for large precision structures
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Compliant hydrodynamic fluid journal bearing
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[NASA-CASE-XLA-01807] c 15 N71-10799

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[NASA-CASE-NPO-10646] c 15 N71-28467

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

Method of laminating structural members
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[NASA-CASE-XHO-02146] c 18 N75-27040

Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264

Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

Daze fasteners
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[NASA-CASE-MSC-19372-1] c 39 N76-31562

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Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428

Active notch filter network with variable notch depth, width and frequency
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Method and apparatus for minimizing multiple degree of freedom vibration transmission between two regions of a structure
[NASA-CASE-LAR-14508-1-CU] c 39 N93-13420

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Energy absorbing structure Patent Application
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Collapse structure for an antenna reflector
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[NASA-CASE-LAR-11900-1] c 37 N79-14382

Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

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[NASA-CASE-MFS-20299] c 15 N72-11392

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[NASA-CASE-MSC-14903-1] c 27 N78-32256

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[NASA-CASE-ARC-10912-1] c 34 N77-19353

Polymeric compositions and their method of manufacture — forming filled polymer systems using cryogenics
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Liquid-immersible electrostatic ultrasonic transducer
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[NASA-CASE-NPO-16372-1] c 72 N86-33127

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Optically-switched submillimeter-wave oscillator and radiator
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Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
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- Cutting head for ultrasonic lithotripsy
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Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
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Tension measurement device Patent
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Tensile strength testing device Patent
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Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
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Anti-buckling fatigue test assembly — for subjecting metal specimen to tensile and compressive loads at constant temperature
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Method and apparatus for tensile testing of metal foil
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Device for tensioning test specimens within an hermetically sealed chamber
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Method and apparatus for gripping uniaxial fibrous composite materials
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Device for measuring hole elongation in a bolted joint
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- Furnace for tensile/fatigue testing
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- TENSION**
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- TERMINAL GUIDANCE**
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[NASA-CASE-XAC-05333] c 11 N71-22875
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[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
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[NASA-CASE-NPO-10796] c 15 N71-27068
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[NASA-CASE-ERC-10150] c 14 N71-28992
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[NASA-CASE-MFS-23299-1] c 39 N77-28511
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- TEST EQUIPMENT**
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[NASA-CASE-XMS-05454-1] c 07 N71-12391
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[NASA-CASE-XKS-06250] c 14 N71-15600
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[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
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[NASA-CASE-KSC-10730-1] c 14 N73-32318
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Anti-buckling fatigue test assembly — for subjecting metal specimen to tensile and compressive loads at constant temperature
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Method and apparatus for checking fire detectors
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Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Particulate and aerosol detector
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High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
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[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
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[NASA-CASE-LAR-13629-1] c 09 N91-14356
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[NASA-CASE-LAR-13817-2] c 39 N92-29155
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N94-10669
Atomic oxygen reactor having at least one sidearm conduit
[NASA-CASE-MSC-21487-4] c 31 N94-35445
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[NASA-CASE-XLE-00252] c 11 N70-34844
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
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[NASA-CASE-XLA-01131] c 14 N71-10774
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[NASA-CASE-XNP-03578] c 11 N71-23030
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[NASA-CASE-NPO-12109] c 11 N72-22245
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[NASA-CASE-LAR-10774] c 10 N71-13545
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- TETHERED SATELLITES**
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[NASA-CASE-MFS-23564-1] c 15 N78-25119
- TETHERING**
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[NASA-CASE-XLA-02332] c 32 N71-17609
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[NASA-CASE-XMS-10993] c 15 N71-28936
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[NASA-CASE-MSC-21967-1] c 37 N94-23822
- TETHERLINES**
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[NASA-CASE-MSC-13512-1] c 15 N72-22485
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[NASA-CASE-MSC-20475-1] c 37 N87-17037
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[NASA-CASE-MSC-18737-1] c 24 N83-13171
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- TEXTILES**
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[NASA-CASE-LEW-13028-1] c 27 N82-33521
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[NASA-CASE-LEW-12919-1] c 24 N83-10117
- THERAPY**
Hyperthermia heating apparatus — cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
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[NASA-CASE-LAR-13508-3-CU] c 09 N93-11057
- THERMAL COMFORT**
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[NASA-CASE-XMS-03694-1] c 54 N82-29002
- THERMAL CONDUCTIVITY**
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[NASA-CASE-XLE-00266] c 14 N70-34156
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[NASA-CASE-XGS-01052] c 14 N71-15992
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[NASA-CASE-MSC-12084-1] c 12 N71-17569
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[NASA-CASE-XNP-05524] c 33 N71-24876
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[NASA-CASE-GSC-11304-1] c 06 N72-21105
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[NASA-CASE-LEW-12554-1] c 34 N78-18355
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
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[NASA-CASE-LEW-14162-1] c 34 N91-13668
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[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
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[NASA-CASE-XMS-02087] c 09 N70-41717
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- Thermal control coating Patent
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- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- Refractory porcelain enamel passive control coating for high temperature alloys
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- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
- Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
- High temperature resistant cermet and ceramic compositions — for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Lightweight electrically-powered flexible thermal laminate — made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725
- Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N93-14706
- Oxidation resistant overlay coatings for low expansion substrates
[NASA-CASE-LEW-15154-1] c 27 N93-19332
- Plasma sprayed ceramic thermal barrier coating for NiAl-based intermetallic alloys
[NASA-CASE-LEW-15535-1] c 26 N94-29507

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- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

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- Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N93-14707
- A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N93-20119

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- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

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- Electromagnetic radiation energy arrangement — coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296

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- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
- Solid medium thermal engine
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- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Thermal energy storage system — operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Thermal energy transformer
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- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Method for improving the fuel efficiency of a gas turbine engine
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- Thermal power transfer system using applied potential difference to sustain operating pressure difference
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- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
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- Thermally operated valve Patent
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- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
- A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
- Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020
- Oxidation resistant overlay coatings for low expansion substrates
[NASA-CASE-LEW-15154-1] c 27 N93-19332
- Method for producing a hybridization of detector array and integrated circuit for readout
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- Carbon-carbon grid for ion engines
[NASA-CASE-NPO-19174-1-CU] c 20 N94-15876
- A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
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THERMAL FATIGUE

- Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION

- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
- Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
- Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Heater-mixer for stored fluids
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- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- High current electrical lead — for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
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- Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
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- Auger attachment method for insulation — of spacecraft
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- Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- Thermal insulation attaching means — adhesive bonding of felt vibration insulators under ceramic tiles
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- Thermal insulation protection means
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- Installing fiber insulation
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- Process for the preparation of polycarbonylphosphazenes — thermal insulation
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- Carbonylphosphazenes and their polymers — thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
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[NASA-CASE-MSC-21503-1] c 27 N92-10091
- Composite flexible blanket insulation
[NASA-CASE-ARC-11955-1-CU] c 24 N94-29509
- Electrically conductive, thermally insulating cryogenic current leads
[NASA-CASE-LAR-14964-1-CU] c 33 N94-36781

THERMAL MAPPING

- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

THERMAL NOISE

- Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021

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- Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

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- Thermo-protective device for balances Patent
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[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
- Method for culturing mammalian cells in a perfused bioreactor
[NASA-CASE-MSC-21293-2] c 51 N93-10109
- Method for culturing mammalian cells in a horizontally rotated bioreactor
[NASA-CASE-MSC-21294-2] c 51 N93-10110
- Cultured normal mammalian tissue and process
[NASA-CASE-MSC-21984-1] c 51 N94-15969
- Multi-cellular, three-dimensional living mammalian tissue
[NASA-CASE-MSC-21560-2] c 51 N94-35232
- High density cell culture system
[NASA-CASE-MSC-22060-1] c 51 N94-35366
- Three dimensional optical tissue culture and process
[NASA-CASE-MSC-22368-1] c 51 N94-36765
- TITANATES**
- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- TITANIUM ALLOYS**
- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxidation resistant coating for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N92-29090
- Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912
- TITANIUM NITRIDES**
- Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- TITANIUM OXIDES**
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- TOILETS**
- Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- TOLERANCES (MECHANICS)**
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- Mold bolt and means for achieving close tolerances between bolts and bolt holes
[NASA-CASE-MFS-28720-1] c 37 N94-20379
- Tough, processable semi-interpenetrating polymer networks from monomer reactants
[NASA-CASE-LAR-14838-1] c 27 N94-35233
- TOLUENE**
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- TOMOGRAPHY**
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- TOOLS**
- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
- Insert facing tool — manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Connection system — insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

- Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723
- Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N93-14871
- Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N93-18286
- Split rail gripper assembly and tool driver therefor
[NASA-CASE-GSC-13370-2] c 37 N93-18288
- TOOTH DISEASES**
- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- TOPOGRAPHY**
- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
- Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
- Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058
- TORCHES**
- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
- Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- Vacuum vapor deposition
[NASA-CASE-MFS-28652-1] c 27 N94-29446
- Plasma arc welding weld imaging
[NASA-CASE-MFS-28797-1] c 37 N94-35367
- TOROIDAL SHELLS**
- Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- TOROIDS**
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
- TORQUE**
- Bi-directional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
- Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728
- Spline screw multiple rotations mechanism
[NASA-CASE-GSC-13452-1] c 37 N94-23078
- Bolt and nut evaluator
[NASA-CASE-GSC-13468-1] c 35 N94-29538
- Variable stiffness torsion springs
[NASA-CASE-MFS-28930-1] c 70 N94-36782

TORQUE MOTORS

- Low speed phase-lock speed control system — for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
- Suspension system for gimbal supported scanning payloads
[NASA-CASE-MFS-28817-1] c 35 N94-29358

TORQUE SENSORS (ROBOTICS)

- Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

TORQUEMETERS

- Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Bolt and nut evaluator
[NASA-CASE-GSC-13468-1] c 35 N94-29538

TORSION

- Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
- Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N93-24598
- Variable stiffness torsion springs
[NASA-CASE-MFS-28930-1] c 70 N94-36782

TORSO

- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11618-1] c 54 N86-28618

TOUCH

- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
- Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

TOUGHNESS

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239
- Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-2] c 27 N93-11059
- Poly(arylene ether-co-imidazole)s as toughness modifiers for epoxy resins
[NASA-CASE-LAR-15229-1-CU] c 27 N94-29451
- Tough, processable semi-interpenetrating polymer networks from monomer reactants
[NASA-CASE-LAR-14838-1] c 27 N94-35233

TOWERS

- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343

TOXICITY

- Glass compositions with a high modulus of elasticity — nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- Low toxicity high temperature PMR polyimide
[NASA-CASE-LAR-14639-1] c 27 N93-14709

TOXICITY AND SAFETY HAZARD

- Apparatus for remote handling of materials — mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

TOXICOLOGY

- Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

TRACE CONTAMINANTS

- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

Nebulization reflux concentrator

- [NASA-CASE-LAR-13254-1CU] c 35 N86-29174

TRACE ELEMENTS

- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
- Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- Electron reversal ionizer for detection of trace species using a spherical cathode
[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329

TRACKED VEHICLES

- Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRACKING (POSITION)

- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- System and method for tracking a signal source — employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
- Global Positioning System Synchronized Active Light Autonomous Docking System
[NASA-CASE-MFS-28853-1] c 18 N94-36825

TRACKING FILTERS

- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16481-1] c 33 N79-11313
- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

TRACKING RADAR

- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TRACKING STATIONS

- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

TRACTION

- Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

TRAFFIC CONTROL

- Traffic survey system — using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

TRAILERS

- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRAILING EDGES

- Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

TRAILING-EDGE FLAPS

- Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

TRAINING DEVICES

- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- Virtual reality flight control display with six-degree-of-freedom controller and spherical orientation overlay
[NASA-CASE-NPO-18733-1-CU] c 06 N93-30416

TRAINING SIMULATORS

- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
- Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
- Kinesthetic control simulator — for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

TRAJECTORIES

- Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

TRAJECTORY ANALYSIS

- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

TRAJECTORY CONTROL

- Trajectory-correction propulsion system Patent
[NASA-CASE-NPO-01104] c 28 N70-39931
- Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
- Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177

TRAJECTORY PLANNING

- Digital parallel processor array for optimum path planning
[NASA-CASE-NPO-18727-1-CU] c 62 N93-28427

TRANSDUCERS

- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
- Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
- Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
- Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- LC-oscillator with automatic stabilized amplitude via bias current control — power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
- Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552

TRANSFER FUNCTIONS

- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
- Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
- Control system and method for prosthetic devices
[NASA-CASE-MSC-21941-1] c 54 N93-17087
- System for improving measurement accuracy of transducer by measuring transducer temperature and resistance change using thermoelectric voltages
[NASA-CASE-ARC-12014-1] c 35 N94-29361
- Method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N94-29548
- Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N94-35235
- ### TRANSFER FUNCTIONS
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Head related transfer function pseudo-stereophony
[NASA-CASE-ARC-11919-1-NP] c 71 N94-23312
- ### TRANSFORMATIONS (MATHEMATICS)
- Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
- ### TRANSFORMERS
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
- Three phase power factor controller
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VARIABLE SWEEP WINGS

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[NASA-CASE-LAR-11645-1] c 02 N77-10001

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Vortex generating flow passage design for increased film cooling effectiveness
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[NASA-CASE-NSTL-10] c 45 N84-12654
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- Sharps container
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- High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
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[NASA-CASE-MFS-28485-1] c 35 N92-29135
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N93-22035

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- Potable water dispenser
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- Vehicle parachute and equipment jettison system Patent
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[NASA-CASE-MSC-10960-1] c 03 N71-24718
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- Compact solar still Patent
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[NASA-CASE-ARC-10643-1] c 25 N75-12087
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Process for purification of waste water produced by a Kraft process pulp and paper mill
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[NASA-CASE-NPO-14340-1] c 45 N80-14579
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[NASA-CASE-ARC-10980-1] c 27 N80-23452
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[NASA-CASE-NPO-14001-1] c 27 N81-14076
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[NASA-CASE-NST-00007-1] c 45 N91-14662
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[NASA-CASE-MSC-21584-1] c 25 N92-33029
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[NASA-CASE-XMS-01618] c 14 N71-20741
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[NASA-CASE-NPO-18194-1-CU] c 74 N94-20305

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Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
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[NASA-CASE-XMS-01315] c 09 N70-41675
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[NASA-CASE-NPO-10251] c 10 N71-27365
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Double reference pulsed phase locked loop
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Microwave flaw detector Patent
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Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

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Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

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Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
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Lightning current waveform measuring system
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[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

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WAVEGUIDE FILTERS

High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

WAVEGUIDE WINDOWS

Broadband microwave waveguide window Patent
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Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
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Folded traveling wave maser structure Patent
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Method for non-destructive estimation of waveguide directional coupler dimensions
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Method and apparatus for wavelength tuning of liquid lasers
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Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
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Optical systems having spatially invariant outputs
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Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
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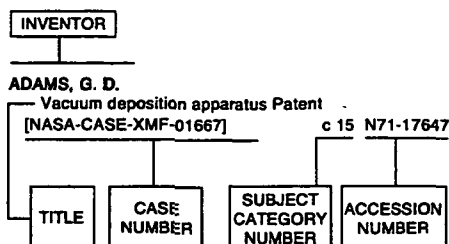
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BACKES, PAUL G.

- Extended task space control for robotic manipulators
[NASA-CASE-NPO-18902-1-CU] c 37 N93-28129
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N94-10670

BACON, J. F.

- Glass compositions with a high modulus of elasticity
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions
containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Non-toxic invert analog glass compositions of high
modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate
glass compositions
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BADIN, F. E.

- Space simulation and radiative property testing system
and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

BAEHR, E. F.

- Channel-type shell construction for rocket engines and
the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Method of making a regeneratively cooled combustion
chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Intra-ocular pressure normalization technique and
equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- BAER, D. A.**
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

BAFFES, PAUL T.

- General purpose architecture for intelligent
computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N94-35501

BAFFES, PAUL THOMAS

- Method of up-front load balancing for local memory
parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769

BAGANOFF, D.

- Means for controlling rupture of shock tube diaphragms
Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

BAGBY, J. P.

- Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407

BAHMAN, H.

- Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Belt for transmitting power from a cogged driving
member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

BAHM, E. J.

- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

BAHREN, JACOB

- Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085

BAILEY, C. L., JR.

- Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942

BAILEY, D. A.

- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

BAILEY, F. J., JR.

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

BAILEY, G. A.

- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

BAILEY, G. C.

- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

BAILEY, J. W.

- Bi-polar phase detector and corrector for split phase
PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

BAILEY, JAMES W.

- Tool and process for miniature explosive joining of
tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196

BAILEY, M. C.

- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

BAILEY, R. L.

- Apparatus and method for protecting a photographic
device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

BAIR, CLAYTON H.

- Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BAKER, C. D.

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405

BAKER, DONALD A.

- Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016

BAKER, E. H.

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

BAKER, G. J.

- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036

BAKER, J. T.

- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BAKER, KARL W.

- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143

BAKER, KEVIN

- Selectively lockable knee brace
[NASA-CASE-MFS-28991-1] c 54 N94-36838

BAKER, M. E.

- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

BAKER, R. L.

- Bidirectional step torque filter with zero backlash
characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

BAKER, V. D.

- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

BAKSTON, B.

- Apparatus for the determination of the existence or
non-existence of a bonding between two members
Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

BALDI, PIERRE F.

- A neural network with modular hierarchical learning
[NASA-CASE-NPO-19077-1-CU] c 63 N94-29492

BALDWIN, L. V.

- Particle beam measurement apparatus using beam
kinetic energy to change the heat sensitive resistance of
the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for increasing ion engine beam density
Patent
[NASA-CASE-XLE-00519] c 28 N70-41576

BALES, T. T.

- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

BALLANTINE, T. J.

- A method and technique for installing light-weight fragile,
high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

BALLARD, R. R.

- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

BALLENTINE, F. M., JR.

- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

BALLOU, E. V.

- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

BAMFORD, R. M.

- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693

BANDINI, U.

- Out of tolerance warning alarm system for plurality of
monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

BANDYOPADHYAY, PROMODE R.

- Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N83-18275

BANK, H.

- Gas diffusion liquid storage bag and method of use for
storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

BANKS, A.

- Apparatus for producing oxidation protection coatings
for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569

BANKS, B. A.

- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Process for glass coating an ion accelerator grid
Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Electromagnetic flow rate meter
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to
provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276

- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Texturing polymer surfaces by transfer casting
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- BANKS, BRUCE A.**
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
- Method for retarding oxidation of an organic substrate
[NASA-CASE-LEW-15306-2] c 27 N93-28425
- Semiconductor cooling apparatus
[NASA-CASE-LEW-14162-3] c 24 N93-29614
- Method and apparatus for producing a thermal atomic oxygen beam
[NASA-CASE-LEW-15614-1] c 72 N94-23825
- Heat transfer device
[NASA-CASE-LEW-14162-4] c 24 N94-35076
- Atomic oxygen protective coating with resistance to undercutting at defect sites
[NASA-CASE-LEW-15306-1] c 27 N94-35502
- BANKS, DANIEL W.**
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387
- BANKSTON, B. F.**
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- Two-dimensional scanner apparatus
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- BANKSTON, C. PERRY**
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
- BANKSTON, CLYDE P.**
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
- BANSAL, N. P.**
Fiber-reinforced monoclinic celcian matrix composite material
[NASA-CASE-LEW-15269-1] c 24 N93-20040
- BANSAL, NAROTTAM**
Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543
- BANSAL, NAROTTAM P.**
Ceramic fiber reinforced glass-ceramic matrix composite
[NASA-CASE-LEW-15262-1] c 24 N93-26100
- SiC fiber-reinforced Celcian glass-ceramic matrix composite
[NASA-CASE-LEW-15264-1] c 24 N93-31293
- Method of producing a silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-2] c 24 N94-15929
- Sintering silicon nitride
[NASA-CASE-LEW-15489-1] c 27 N94-20529
- Method of producing a ceramic fiber-reinforced glass-ceramic matrix composite
[NASA-CASE-LEW-15264-2] c 24 N94-29508
- BANTA, R. D.**
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- BARACK, W. N.**
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- BARAONA, C. R.**
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- BARBER, J. B.**
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- BARBER, PATRICK G.**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- BARBERA, A. J.**
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- BARD, STEVEN**
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- Three-stage sorption type cryogenic refrigeration systems and methods employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N93-13422
- BARGER, R. L.**
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- BARHEN, JACOB**
Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276
- Unipolar terminal-attractor based neural associative memory with adaptive threshold
[NASA-CASE-NPO-18790-1-CU] c 63 N94-15958
- BARISH, B.**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
- BARKER, P.**
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- BARMATZ, M. B.**
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
- Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
- Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- BARMATZ, MARTIN B.**
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
- Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
- Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
- Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- Motion measurement of acoustically levitated object
[NASA-CASE-NPO-18191-1-CU] c 09 N93-24601
- BARNA, P. STEPHEN**
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N93-25996
- BARNES, J. R.**
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- BARNES, NORMAN P.**
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788
- BARNES, P. E.**
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- BARNES, SCOTT P.**
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
- BARNES, WAYNE L.**
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- BARNETT, CLIFFORD J.**
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- BARNETT, J. H., JR.**
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- BARNETT, M. A.**
Furlable antenna
[NASA-CASE-NPO-13553-1] c 33 N76-32457
- BARNEY, RICHARD D.**
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
- BARNISKIS, W. A.**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- BARNIS, C. E.**
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- BARNIS, CHRIS E.**
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- BARR, T. A.**
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- BARRETT, C. A.**
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- BARRETT, CHARLES A.**
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- BARRETT, T. W.**
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- BARRINGTON, A. B.**
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
- BARRINGTON, A. E.**
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- BARTEA, R. E.**
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- BARTHOLOME, D. E.**
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- BARTMAN, RANDALL K.**
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- BARZA, M. J.**
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

BASHAM, BRYAN D.

Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

BASIULIS, A.

Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

BASIULIS, D. I.

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

BASS, A. M.

Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Ultraviolet atomic emission detector
[NASA-CASE-HON-10756-1] c 14 N72-25428

BASS, R. GERALD

Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

BASS, ROBERT G.

Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847

Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

BASTIEN, G. J.

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

BATE, E. R., JR.

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

BATES, H. E.

Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

BATHKER, D. A.

Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

BATSCH, F. F.

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Silt regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620

BATTE, W. G.

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

BATTEN, C. E.

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

BATTERSON, S. A.

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329

BATTIS, C. N.

Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586

BATTIS, COLOSSIE N.

Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235

BATTY, ROY S.

Shock-free supersonic elliptic nozzles and method of forming same
[NASA-CASE-LAR-14054-1] c 20 N94-15947

BAUCOM, R. M.

Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

BAUCOM, ROBERT M.

Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
Non-rectangular towpreg architectures
[NASA-CASE-LAR-14863-1-CU] c 24 N94-29485
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N94-35075

BAUER, H. B.

Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902

BAUER, STEVEN X. S.

Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909

BAUER, STEVEN X. S.

Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

BAUERNSCHUB, J. P., JR.

Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

BAUGH, B. T.

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

BAUGHMAN, J. R.

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478

BAUMAN, A. J.

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688

Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Molten salt pyrolysis of latex
[NASA-CASE-NPO-14315-1] c 27 N81-17261

BAUMER, W. E.

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

BAXTER, R. D.

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

BAYARD, DAVID S.

Extended horizon lifting for periodic gain adjustment in control systems, and for equalization of communication channels
[NASA-CASE-NPO-19166-1-CU] c 32 N94-29495

BAYSAL, OKTAY

Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

BEALE, H. A.

Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BEALS, DAVID C.

Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615

BEAM, B. H.

Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477

BEAM, R. A.

Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

BEAM, R. M.

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

BEASLEY, R. M.

Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

BEASLEY, W. D.

Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

BEATTY, R. W.

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

BEAUREGARD, W. W.

Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427

BECK, A. F.

Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

BECK, T. R.

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

BECKER, R. A.

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

BECKERLE, L. D.

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

BECKMAN, BRIAN C.

Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

Virtual reality flight control display with six-degree-of-freedom controller and spherical orientation overlay
[NASA-CASE-NPO-18733-1-CU] c 06 N93-30416

BECKMAN, P.

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

BECKWITH, I. E.

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

BECKWITH, R. M.

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

BEEHM, J. M.

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

BEEKMAN, S. W.

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

BEEN, J. F.

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

BEER, R.

Cooled echelle grating spectrometer
[NASA-CASE-NPO-14372-1] c 35 N80-26635

BEGAULT, DURAND R.

Head related transfer function pseudo-stereophony
[NASA-CASE-ARC-11919-1-NP] c 71 N94-23312

Multi-channel spatialization systems for audio signals
[NASA-CASE-ARC-12013-1-CU] c 32 N94-29364

BEGGS, J. M.

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

BEGGS, JAMES M.

Fire and heat resistant laminating resin based on maleimide and citraconimide substituted 1-(diorganooxyphosphoryl-methyl)-2,4-2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

BEHEIM, GLENN

Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058

BEHIMER, H.

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

BEHM, J. W.

Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784

BEHUN, VAUGHN D.

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173

BEITLER, R. S.

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

BEJCZY, A. K.

Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

BEJCZY, ANTA K.

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

BEJCZY, ANITA K.

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

BELANGER, R. J.

Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048

BELASCO, N.

Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

BELCHER, J. G., JR.

Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441

BELCHER, JEWELL G.

Prosthetic helping hand
[NASA-CASE-MFS-28430-1] c 54 N92-24044

BELCHER, JEWELL G., JR.

Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N93-14870

BELCHER, JEWELL G., JR.

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

- BELEW, H. W., JR.**
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
- BELEW, R. R.**
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
- BELEW, ROBERT**
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- BELL, A.**
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- BELL, BRAD N.**
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- BELL, C. H.**
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
- BELL, D. III**
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- BELL, V. L.**
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- BELL, V. L., JR.**
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
- BELL, VERNON L.**
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
- BELLAVIA, J., JR.**
Thermal barrier pressure seal
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- BELLMAN, D. R.**
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
- BELROSE, CHARLES R.**
Saddle clamp assembly
[NASA-CASE-MFS-28701-1] c 37 N93-17057
- BELT, J. L.**
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- BELTZ, MARK W.**
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1] c 27 N93-25997
- BEMENT, L. J.**
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Totally confined explosive welding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- BEMENT, LAURENCE J.**
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
Performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N93-18274
- BENEDICT, R. D.**
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- BENEDICTO, J. S. J.**
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- BENGTSON, R. D.**
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- BENHAM, J. W.**
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
- BENKOWSKI, ROBERT J.**
Rotary blood pump
[NASA-CASE-MSC-22424-1] c 37 N94-29370
- BENNETT, G. W.**
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- BENNINGTON, DONALD R.**
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
- BENSON, DWAYNE M.**
Manufacturing methods for machining spring ends parallel at loaded length
[NASA-CASE-MFS-28767-1] c 31 N94-29379
- BENZ, F. J.**
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- BENZ, H. A.**
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- BERATAN, DAVID N.**
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
- BERDAHL, C. M.**
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1-CU] c 35 N86-32695
- BEREMAND, D. G.**
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- BEREMAND, G. B.**
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- BERG, O. E.**
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- BERGE, L. H.**
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- BERGLUND, R. A.**
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
- BERGSTROM, S. L.**
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- BERKA, R. B.**
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- BERKA, REGINALD B.**
Heavy-lift vehicle-launched Space Station method and apparatus
[NASA-CASE-MSC-21760-1] c 15 N94-29369
- BERKMAN, S.**
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- BERKOPEC, F. D.**
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- BERMAN, P. A.**
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- BERNARDIN, R. M.**
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- BERNATOWICZ, D. T.**
Method of making silicon solar cell array
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- BERNIUS, MARK T.**
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- BERNSEN, B.**
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- BERNSTEIN, A. J.**
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- BERRIER, B. L.**
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- BERRY, ANTHONY**
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
- BERRY, E. H.**
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- BERRY, MAGGIE L.**
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- BERRY, R. F., JR.**
Ultrasonic angle beam standard reflector
[NASA-CASE-XLA-03153-1] c 71 N86-21276
- BERRY, ROBERT F., JR.**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- BERSON, L. A.**
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
- BESSETTE, R. J.**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- BESWICK, A. G.**
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- BEUYUKIAN, C. S.**
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- BEYLIK, C. M.**
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- BHAGAT, P. K.**
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BHANDARI, PRADEEP

- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
- BHASIN, KUL B.**
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571
- BHAT, B. N.**
Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- BHAT, BALAKRISHNA T.**
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- BHATT, RAMAKRISHNA T.**
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- BHIWANDKER, N. C.**
Method for making conductors for ferrite memory arrays
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- BIBBO, C.**
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
- BICKLER, D. B.**
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- BICKLER, DONALD B.**
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- BICKLER, T. C.**
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- BICKNELL, T. J.**
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- BIDDLE, ALAN P.**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- BIEL, A. J.**
Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- BIENIEK, T.**
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HON-10364] c 06 N71-27363
- BIER, M.**
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
- BIKLE, P. F.**
System for use in conducting wake investigation for a wing in flight
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- BILBRO, J. W.**
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- BILDERBACK, R. R.**
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- BILES, J. E., JR.**
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- BILL, R. C.**
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

BILLICA, LINDA W.

- Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N94-23822
- BILLINGHAM, J.**
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- BILLINGS, C. R.**
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- BILLINGSLEY, F. C.**
Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
- BILLMAN, K. W.**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- BILOW, M.**
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
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- Method of making silicon solar cell array
[NASA-CASE-LEW-11069-1] c 44 N74-14784

- Covered silicon solar cells and method of manufacture
[NASA-CASE-LEW-11065-2] c 44 N76-14600

- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580

BRODERICK, J. C.

- Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612

BRODERICK, R. F.

- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

- Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

BRODIE, S. B.

- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041

BROKL, S. S.

- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206

BROMAN, C. L.

- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025

BROOK, MARX

- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-2-CU] c 47 N93-10108

BROOKS, A. D.

- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

BROOKS, D. E.

- Method for separating biological cells
[NASA-CASE-MFS-23883-1] c 51 N80-16715

BROOKS, G. W.

- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103

BROOKS, J. D.

- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

BROOKS, J. D.

- Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

BROOKS, R. A.

- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442

BROOKS, R. L.

- Fluid sample collection and distribution system
[NASA-CASE-MSC-16841-1] c 34 N79-24285

- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

BROOKS, THOMAS F.

- Forward sweep, low noise rotor blade
[NASA-CASE-LAR-14569-1] c 05 N94-36767

BROOM, MARY B.

- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

BROPHY, JOHN R.

- Three-grid accelerator system for an ion propulsion engine
[NASA-CASE-NPO-18391-1-CU] c 20 N93-28424

BROPHY, JOHN R.

- Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

BROSH, A.

- Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364

BROUSSARD, P. H.

- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

BROUSSARD, R.

- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

BROWN, C. E.

- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

BROWN, CHRISTOPHER WILLIAM

- Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

BROWN, D.

- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

BROWN, D. W.

- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

BROWN, DAVID R.

- Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517

- Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

BROWN, E. L.

- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290

- BROWN, G. A.**
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- BROWN, G. V.**
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Magnetocaloric pump
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- BROWN, H. H.**
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
- BROWN, J. W.**
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- BROWN, JAMES L.**
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
- BROWN, K. H.**
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- BROWN, KENNETH G.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- BROWN, N. D.**
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- BROWN, P. A.**
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- BROWN, R. F.**
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- BROWN, R. H.**
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- BROWN, R. L.**
Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- BROWN, R. M.**
Multiple pass reimagining optical system
[NASA-CASE-ARC-01194-1] c 23 N73-20741
- BROWN, RICHARD F.**
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
- BROWN, W. E., III**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- BROWNING, R. E.**
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
- BROYLES, H. F.**
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- BROYLES, H. H.**
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
- BRUCE, M. L., JR.**
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- BRUCE, R. A.**
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Air removal device
[NASA-CASE-XLA-08914-2] c 25 N82-21269
- BRUDNICKI, MYRON**
Rotary actuator
[NASA-CASE-MFS-28581-1] c 26 N94-29447
- BRUNSON, J. W.**
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- BRUNSTEIN, S. A.**
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- BRYAN, C. J.**
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
System for sterilizing objects
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- BRYAN, CHARLES F., JR.**
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Reusable cryogenic liquid rocket propellant tank
[NASA-CASE-LAR-14172-1] c 20 N93-31295
- BRYAN, M. B.**
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
- BRYAN, THOMAS C.**
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
- BRYANT, E. L.**
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- BRYANT, PHILLIP G.**
Mold bolt and means for achieving close tolerances between bolts and bolt holes
[NASA-CASE-MFS-28720-1] c 37 N94-20379
- BRYANT, ROBERT G.**
Phenylethynyl-terminated poly(arylene ethers)
[NASA-CASE-LAR-14797-1] c 27 N94-23307
Phenylethynyl endcapping reagents and reactive diluents
[NASA-CASE-LAR-14796-1] c 25 N94-35077
- BRYANT, TIMOTHY D.**
Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
- BRYANT, W. H.**
Digital controller for a Baum folding machine
[NASA-CASE-LAR-10688-1] c 37 N74-21056
- BRYSON, R. P.**
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
- BUBE, K. R.**
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- BUCHANAN, R. I.**
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- BUCHHELE, D. R.**
Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- BUCHHOLD, T. A.**
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
- BUCHMILLER, L. D.**
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
- BUCK, GREGORY M.**
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Nonaqueous slip casting of high temperature ceramic superconductors using an investment casting technique
[NASA-CASE-LAR-14918-1] c 31 N94-15881
Improved ceramic slip casting technique
[NASA-CASE-LAR-14471-1] c 27 N94-20377
- BUCKLEY, D. H.**
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- BUCKLEY, J. D.**
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- BUCKLEY, JOHN D.**
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150
Nonaqueous slip casting of high temperature ceramic superconductors using an investment casting technique
[NASA-CASE-LAR-14918-1] c 31 N94-15881
- BUHLER, KURT D.**
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- BUHLER, M. G.**
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- BUHLER, MARTIN G.**
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
- BUGG, CHARLES E.**
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
- BUGGA, RATNAKUMAR V.**
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
- BUHLER, G. V.**
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- BULLINGER, H. B.**
Photobatching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
- BUNCE, R. C.**
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- BUNIN, B. L.**
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- BUNKER, E. R., JR.**
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
- BUNKER, J. W.**
Slide release mechanism
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- BUONCRISTIANI, A. MARTIN**
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
- BURCH, C. F.**
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
- BURCH, J. L.**
Two speed drive system
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- BURCHAM, F. W.**
Multiple pure tone elimination strut assembly
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- BURCHAM, T. W.**
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- BURCHER, E. E.**
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- BURDIN, C.**
Phase-locked servo system
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- BURGESS, A. S.**
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- BURGETT, F. A.**
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
- BURK, S. M., JR.**
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- BURKE, J. R.**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- BURKE, JAMES D.**
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
- BURKHARDT, RAYMOND**
Bolt and nut evaluator
[NASA-CASE-GSC-13468-1] c 35 N94-29538
- BURKHART, J. A.**
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
- BURKLEY, R. A.**
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
- BURKS, H. D.**
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- BURKS, HAROLD D.**
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157
- Polyimide processing additives
[NASA-CASE-LAR-13669-2] c 27 N94-23079
- BURKS, R. E., JR.**
Infusible silazane polymer and process for producing same
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- BURLEY, RICHARD K.**
Valve malfunction detection apparatus
[NASA-CASE-MFS-29904-1] c 35 N93-29503
- BURNETT, J. E.**
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- BURNHAM, D. C.**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- BURNS, E. A.**
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- BURNS, F. P.**
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- BURNS, M. R., JR.**
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- BURNS, R. H.**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- BURNS, R. K.**
Protected isotope heat source
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- BURROUS, C. N.**
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- BURROWS, D. L.**
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- BURTON, D. R.**
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- BURTON, W. A.**
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- BUSEMANN, A.**
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- BUSH, H. G.**
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Lightweight structural columns
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- BUSH, HAROLD G.**
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N81-29118
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
- BUSHNELL, D. M.**
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- BUSHNELL, DENNIS M.**
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- BUSHONG, WILTON E.**
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- BUSSEY, WALTER S.**
Multi-adjustable headband
[NASA-CASE-KSC-11322-1] c 54 N89-29953
- BUTLER, D. H.**
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- BUTLER, J. M.**
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- BUTLER, L. V.**
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- BUTMAN, S.**
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- BUTMAN, S. A.**
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- BUTNER, C. L.**
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- BUZZARD, R. J.**
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- BUZZARD, ROBERT J.**
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- BYER, ROBERT L.**
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- BYERS, D. C.**
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- BYNUM, B. G.**
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

- BYRD, A. W.**
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Thermoelectric power system
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[NASA-CASE-NPO-10556] c 14 N71-27185
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- CHAPMAN, JOHN J.**
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
- CHAPMAN, R. M.**
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- CHAPPELLE, E. W.**
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

- Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- CHARLES, J. F.**
Floating nut retention system
[NASA-CASE-MS-C-16938-1] c 37 N80-23653
- CHARLESTON, A.**
Chromium electrodes for REDOX cells
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- CHARLTON, K. W.**
Pneumatic system for controlling and actuating
pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- CHARNOVSKY, A. J.**
Tool attachment for spreading loose elements away from
work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- CHASE, E. W.**
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- CHASE, W. D.**
Vehicle simulator binocular multiplanar visual display
system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Spectrally balanced chromatic landing approach lighting
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[NASA-CASE-ARC-10990-1] c 04 N82-16059
Environmental fog/rain visual display system for aircraft
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[NASA-CASE-ARC-11158-1] c 09 N82-24212
- CHATURVEDI, SUSHIL K.**
Two-stage gas measurement system
[NASA-CASE-LAR-14791-1] c 35 N93-31297
- CHAU, SAVIO N.**
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N93-22032
- CHEATHAM, D. C.**
Spacecraft docking and alignment system
[NASA-CASE-MS-C-12559-1] c 18 N76-14186
- CHEN, B. C. J.**
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- CHEN, C. J.**
Isotope separation using metallic vapor lasers
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- CHEN, CHIEN-CHUNG**
Electro-optic resonant phase modulator
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Lasercorn system architecture with reduced
complexity
[NASA-CASE-NPO-19069-1-CU] c 36 N94-29493
- CHEN, D. Y.**
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- CHEN, T. S.**
Process for preparing perfluorotriazine elastomers and
precursors thereof
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[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- CHEN, TIMOTHY S.**
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
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[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
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[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
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[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
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[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-containing organosilane polymers and ceramic
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[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Boron-carbon-silicon polymers and ceramic and a
process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
Ceramic silicon-boron-carbon fibers from organic
silicon-boron-polymers
[NASA-CASE-ARC-11956-1-SB] c 27 N94-23311
- CHEN, TONY T. D.**
Two-stage gas measurement system
[NASA-CASE-LAR-14791-1] c 35 N93-31297
- CHEN, W.**
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- CHEN, W. S.**
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- CHENG, C. H.**
Process for preparing perfluorotriazine elastomers and
precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- CHENG, D. Y.**
Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c 07 N75-24736
System for measuring Reynolds in a turbulently flowing
fluid
[NASA-CASE-ARC-10755-2] c 34 N76-27517
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components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- CHENG, LI-JEN**
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Tailorable infrared sensing device with strain layer
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Dynamic range compression/expansion of light beams
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Tailorable infrared sensing device with strain layer
superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
Motion detection, novelty filtering, and target tracking
using an interferometric technique with a GaAs phase
conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N93-29086
- CHERDAK, A. S.**
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- CHERN, ENGIN J.**
Method for advanced material characterization by laser
induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Method and apparatus for determination of material
residual stress
[NASA-CASE-GSC-13451-1] c 39 N93-20118
Method and apparatus for deflection measurements
using eddy current effects
[NASA-CASE-GSC-13506-1] c 35 N93-26103
- CHERN, S. S.**
Chemical vapor deposition reactor
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- CHERNOFF, R.**
Frequency translating phase conjugation circuit for
active retrodirective antenna array
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- CHERNOFF, R. C.**
Phase conjugation method and apparatus for an active
retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- CHESTNUTT, D.**
Variably positioned guide vanes for aerodynamic
choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- CHEW, MENG-SANG**
Noncircular rolling joints for vibrational reduction in
slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N93-24598
- CHI, K.**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- CHIAO, R. Y.**
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
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[NASA-CASE-HQN-10541-3] c 23 N72-23695
- CHIH, SAH**
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- CHILDRESS, J. D.**
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- CHILDS, J. H.**
High-vacuum condenser tank for ion rocket tests
Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- CHILENSKI, J. J.**
Ignition system for monopropellant combustion devices
Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- CHILTON, R. G.**
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- CHIOA, R. Y.**
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system
Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- CHISEL, D. M.**
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- CHISHOLM, WILLIAM L.**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- CHONG, C. F.**
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- CHOW, E. Y.**
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- CHOW, EDWARD**
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- CHOWNING, D.**
Emergency earth orbital escape device
[NASA-CASE-MS-C-13281] c 31 N72-18859
- CHREITZBERG, A. M.**
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- CHRISTENSEN, W. W.**
Chelate-modified polymers for atmospheric gas
chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- CHRISTIANSON, ROLLIN C.**
Variable orifice flow regulator
[NASA-CASE-MS-C-21549-1] c 34 N91-27504
High-temperature, high-pressure oxygen metering
valve
[NASA-CASE-MS-C-21823-1] c 37 N94-20589
- CHRISTMAN, L. M.**
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- CHRISTOPHER, P. A.**
Method of fabricating an object with a thin wall having
a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
- CHRISTY, C. L., JR.**
Infusible silazane polymer and process for producing
same
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- CHU, H. P.**
Method of coating a substrate with a rapidly solidified
metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- CHU, T. L.**
Fabrication of polycrystalline solar cells on low-cost
substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for
polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- CHUANG, CHUN-HUA K.**
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N94-35234
- CHUBB, D. L.**
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- CHUBB, DONALD L.**
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- CHUMLEY, J. F.**
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- CHURCHWARD, REX A.**
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
- CHUTJIAN, A.**
High resolution threshold photoelectron spectroscopy
by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- CHUTJIAN, A. N.**
Double photon excitation of high-Rydberg atoms as a
long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

CHUTJIAN, ARA

- Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
Electron reversal ionizer for detection of trace species using a spherical cathode
[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329
- CIEPLUCH, C. C.
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- CINTRON, NITZA M.
Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628
- CISSELL, R. E.
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- CISZEK, T. F.
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- CLAING, R. G.
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- CLANCY, JOHN P.
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927
- CLAPP, W. M.
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- CLARK, C. E.
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CLARK, F. L.
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- CLARK, H. K.
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- CLARK, I. O.
Ampoule sealing apparatus and process
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- CLARK, J. R.
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- CLARK, K. H.
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Electrical self-aligning connector
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- CLARK, R. K.
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- CLARK, R. L.
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- CLARK, R. T.
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- CLARK, RONALD K.
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912
- CLARKE, D. R.
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487

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- EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- CLATTERBUCK, C. H.
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- CLAUS, R. O.
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- CLAUS, RICHARD O.
An interferometer having fused optical fibers, and apparatus and method using the interferometer
[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052
- CLAUSS, R. C.
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
Refrigerated coaxial coupling
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Reflected-wave maser
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- CLAWSON, G. T.
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- CLAY, D. R.
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- CLAY, F. P., JR.
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- CLELAND, E. L.
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- CLEMENS, G. W., JR.
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- CLEMENS, P. W.
Device for configuring multiple leads
[NASA-CASE-MFS-22133-1] c 33 N74-26977
- CLEMENT, W. G.
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- CLEMENTS, P. A.
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- CLEMMONS, D. L., JR.
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- CLEMMONS, J. L., JR.
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
- CLEMMONS, JAMES L., JR.
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- CLEMONS, J. M.
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- CLEMONS, JOHNNY M.
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
- CLENDENIN, C. GERALD
Flux-focusing eddy current probe and method for flaw detection
[NASA-CASE-LAR-15046-1] c 38 N94-29366
- CLEVELAND, G. J.
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

CLEVENSON, S. A.

- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- CLICKNER, R. E., JR.
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
- CLIFF, R. A.
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- CLIFF, W. C.
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- CLIFT, VAUGHAN L.
Method and apparatus for the collection, storage, and real time analysis of blood and other bodily fluids
[NASA-CASE-MSC-22463-1] c 52 N94-36766
- CLINE, R. W.
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- CLOTTFILTER, W. N.
Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
- CLOUGH, L. G.
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
- CLOYD, R. A.
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- CLOYD, RICHARD A.
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- COBB, WILLIAM E.
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
- COBIN, J. C.
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
- COCCA, F. J.
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- CODY, JOSEPH C.
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- COE, C. F.
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- COE, H. H.
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- COE, P. L., JR.
Supersonic transport
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- COFER, W. R., III
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- DABNEY, R. W.**
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- DAVIS, E. J.
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[NASA-CASE-XLE-00023] c 15 N70-33330
- GARDNER, DALE A.**
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

GARDNER, J. N.

Technique of elbow bending small jacketed transfer lines
Patent
[NASA-CASE-XNP-10475] c 15 N71-24679

GARDNER, M. R.

Heating and cooling system
[NASA-CASE-LAR-12393-1] c 34 N83-34221

GARDNER, M. S.

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

GARDOS, M. N.

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

GARFEIN, A.

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680

Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446

GARMIRE, E. M.

Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183

Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695

GARMIRE, G.

X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

GARNER, CHARLES E.

Carbon-carbon grid for ion engines
[NASA-CASE-NPO-19174-1-CU] c 20 N94-15876

GARNER, H. D.

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01889] c 21 N70-34295

Altitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943

Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

GARNER, H. DOUGLAS

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

GARRAHAN, N. M.

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

GARREN, J. F., JR.

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

GARRETT, H.

A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

GARRETT, STEVEN L.

Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

GARRIOTT, OWEN K.

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

GARWOOD, D. C.

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666

GARY, B. L.

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

GARY, BRUCE L.

Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

GASPAR, MARK S.

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

GASSER, M. G.

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

GASSER, MAX G.

Magnetic power piston fluid compressor
[NASA-CASE-GSC-13565-1] c 37 N94-23831

GASTON, D. H.

Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

GASTON, R. P., JR.

Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

GATES, D. W.

Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

GATES, J. D.

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

GATES, L. E., JR.

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

GATES, THOMAS S.

Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

GATEWOOD, J. R.

Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

GATEWOOD, JOHN R.

Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351

GATLIN, J. A.

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033

GATTI, A.

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

GAUSE, R. L.

Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

GAVALAS, G. R.

Manual actuator
[NASA-CASE-MFS-21481-1] c 37 N74-18127

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864

Ergometer calibrator
[NASA-CASE-MFS-21045-1] c 35 N75-15932

GAUTHIER, M. K.

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

GAYLARD, G. R.

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

GAVIN, THOMAS R.

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

GAVIRA, H. E.

Faultsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262

GAVRILLIS, T. G.

Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

GAY, C. H., JR.

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

GDULA, W. G.

Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062

GEBBEN, V. D.

Circuit for detecting initial systole and diastolic notch
[NASA-CASE-LEW-11581-1] c 54 N75-13531

GEDWILL, M. A.

Method of protecting the surface of a substrate
[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings

[NASA-CASE-LEW-11696-2] c 26 N75-19408

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

GEDWILL, MICHAEL G.

High temperature, oxidation resistant noble metal-Al alloy thermocouple
[NASA-CASE-LEW-15515-1] c 35 N94-23826

GEE, S. W.

Terminal guidance system
[NASA-CASE-FRC-10049-1] c 04 N74-13420

GEHRING, W. E.

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

GEIDEMAN, W. A., JR.

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

GEIER, D. J.

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152

GEIPEL, D. H.

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

GEISE, P. E., JR.

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

GEISSINGER, STEVE L.

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

GELB, L. L.

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

GELDERLOOS, H. J. C.

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

GELLES, R.

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

GENEROLI, ROBERT M.

Pretold release mechanism
[NASA-CASE-MSC-22327-1] c 37 N94-36839

GENNERY, D. B.

Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224

GENNERY, DONALD B.

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400

GENTER, R. E.

Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

GEORGE, CLIFFORD E.

Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1-SB] c 25 N93-22036

GEORGE, T. R., JR.

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

GEORGE, THOMAS

Buried porous silicon-germanium layers in monocrystalline silicon lattices and method of producing
[NASA-CASE-NPO-18836-1-CU] c 76 N94-17327

GERBER, MARGARET K.

High temperature polymer from maleimide-acetylene terminated monomers
[NASA-CASE-LAR-14475-1] c 27 N93-19327

Crosslinked polyimides prepared from N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14774-1] c 27 N93-19388

Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N93-29083

GERDTS, J. C.

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901

GERINGER, H. J.

Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

GERMANN, E. F., JR.

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

GERTSMA, L. W.

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

GETCHELL, D. E.

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

GETTELMAN, C. C.

High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913

- GIACCONI, R.**
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- GIAMATASIO, A.**
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
- GIANDOMENICO, A.**
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
- GIANNINI, G. M.**
Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c 37 N75-29426
- GIBBONS, RANDALL E.**
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029
- GIBBS, GARY P.**
Method and apparatus for minimizing multiple degree of freedom vibration transmission between two regions of a structure
[NASA-CASE-LAR-14508-1-CU] c 39 N93-13420
- GIBSON, C. ROBERT**
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755
- GIBSON, F. W.**
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
- GIBSON, JOHN C.**
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N93-29618
- GIFFIN, C. E.**
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- GILBERT, G. J.**
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- GILBERT, JEFFREY L.**
Welding nozzle position manipulator
[NASA-CASE-MFS-29837-1] c 37 N94-15882
- GILBREATH, W. P.**
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- GILCHRIST, C. E.**
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
- GILES, R. M. F.**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- GILKISON, C. A.**
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
- GILL, W. L.**
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- GILLERMAN, J. B.**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- GILLESPIE, W., JR.**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
- Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
- GILLETTE, R. B.**
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- GILLEY, G. C.**
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- GILLEY, P. J.**
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- GILLIGAN, J. E.**
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- GILLILAND, C. S.**
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- GILLMORE, W. F.**
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
- GILMAN, M. M.**
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- GILREATH, M. C.**
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
- GILREATH, MELVIN C.**
Almond test body
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- GILWEE, W. J., JR.**
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- GIN, B.**
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- GIN, W.**
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
- GINER, J. D.**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- GINSBURG, A.**
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- GIORGINI, E. A.**
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
- GIOVANNETTI, A., JR.**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- GIRALA, A. S.**
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
- Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
- GISLER, G. L.**
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- GLASER, P. E.**
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- GLASGOW, T. K.**
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- GLASS, JAMES S.**
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- GLASS, KRISTIN L.**
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
- GLASSEY, E. A.**
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- GLAWE, G. E.**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- GLEASON, J. R.**
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- GLEASON, JOHN R.**
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
- GLEKAS, L. P.**
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- GLENN, C. G.**
Manual actuator
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
- GLENN, D. C.**
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- GLOBUS, R. H.**
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- GLOMB, W. L.**
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- GLORIA, H. R.**
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- GLOSS, BLAIR B.**
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- GLOVER, DANIEL R.**
Picture data compression coder using subband/transform coding with a Lempel-Ziv-based coder
[NASA-CASE-LEW-15700-1] c 82 N93-28130
- Non-orthogonal subband/transform coder
[NASA-CASE-LEW-15310-1] c 32 N94-29589
- GOERING, R. S.**
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
- GOETZ, A. F. H.**
Multispectral imaging and analysis system
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- GOETZ, C.**
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- GOLD, H.**
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- GOLD, H. S.**
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- GOLD, RONALD R.**
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
- GOLDBERG, G. I.**
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- GOLDBERG, J.**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- GOLDEN, D. C.**
Slow-release fertilizer
[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271
- GOLDEN, D. P., JR.**
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Apparatus and method for processing Korotkov sounds
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- GOLDEN, DAGIMUWAGE C.**
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054
- GOLDMAN, G. C.**
High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- GOLDOWSKI, M. P.**
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- GOLDOWSKY, M. P.**
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- GOLDOWSKY, MICHAEL P.**
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- GOLDBERRY, R. E.**
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- GOLDSCHMIED, F. R.**
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

GOLDSMITH, J. V.

GOLDSMITH, J. V.

- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- GOLDSTEIN, A. W.**
Supersonic fan blading
[NASA-CASE-LEW-11402-1] c 07 N74-28226
- GOLDSTEIN, B. E.**
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- GOLDSTEIN, C. S.**
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
- GOLDSTEIN, H. E.**
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
- Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
- Fibrous refractory composite insulation
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Adjustable high emittance gap filler
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- High temperature glass thermal control structure and coating
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- GOLDSTEIN, HOWARD E.**
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- Composite flexible blanket insulation
[NASA-CASE-ARC-11907-1-NP] c 24 N91-31236
- GOLDSTEIN, I.**
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
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Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

GULATI, SANDEEP
Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177

GUNGLE, R. L.
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967

GUNTER, W. D., JR.
Multiple pass reimagining optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Dual wavelength scanning Doppler velocimeter
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501

GUNTER, WILLIAM D.
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Output optics for laser velocimeters
[NASA-CASE-ARC-11889-1-SB] c 74 N94-23309

GUNTER, WILLIAM D., JR.
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350

GUNTHER, MICHAEL F.
An interferometer having fused optical fibers, and apparatus and method using the interferometer
[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052

GUPTA, A.
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

GURTNER, C. A.
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

GUSSOW, S. S.
Pseudo-noise test set for communication system evaluation
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

GUSTAFSON, G. L.
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992

GUSTINICH, J. J.
Microwave limb sounder
[NASA-CASE-NPO-14544-1] c 46 N82-12685

GUTKOWSKI, GARY P.
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

GUTOW, DAVID A.
Welding nozzle position manipulator
[NASA-CASE-MFS-29837-1] c 37 N94-15882

GUTSHALL, R. L.
Star scanner
[NASA-CASE-GSC-11569-1] c 89 N74-30886

GUY, J. T., SR.
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

GUY, WALTER
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

GWIN, HAL S.
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

GYORGAK, C. A.
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817

H

HABBAL, N. A.
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164

HABRA, J. H.
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

HADDICK, CLYDE M., JR.
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

HADEK, V.
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164

HADLAND, W. O.
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488

HADLEY, H. C., JR.
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

HAOT, W. F.
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

HADY, W. F.
High speed, self-acting shaft seal
[NASA-CASE-LEW-11274-1] c 37 N75-21631

HAENNER, C. L.
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

HAENNER, CARL L.
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094

HAERTHER, L. W.
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

HAUSSERMANN, W.
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Magnetic field control
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HAFLE, R. S.
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

HAGEDORN, N. H.
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

HAGEDORN, NORMAN H.
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N93-28974

HAGIHARA, F. S.
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500

HAGOOD, G. J., JR.
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

HAINES, R. F.
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

HALE, R. R.
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203

HALEY, C. T.
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

HALEY, F. C.
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

HALL, A. C.
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

HALL, D. F.
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

HALL, E. D.
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

HALL, E. H.
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095

HALL, EARL T.
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016

- HALL, J. B., JR.**
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- HALL, J. F., JR.**
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- HALL, J. H.**
High powered arc electrodes
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- HALL, WILLIAM A.**
System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855
- HALLAM, K. L.**
Image tube
[NASA-CASE-GSC-11602-1] c 33 N74-21850
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- HALLBERG, F. C.**
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- HALLOCK, J. N.**
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- HALPERT, G.**
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- HALPERT, GERALD**
Thin composite solid electrolyte film for lithium batteries
[NASA-CASE-NPO-18694-1-CU] c 33 N94-17325
Overcharge and overdischarge protection of ambient temperature secondary lithium cells
[NASA-CASE-NPO-18343-1-CU] c 33 N94-23823
Dendrite preventing separator for secondary lithium batteries
[NASA-CASE-NPO-18585-1-CU] c 33 N94-29411
Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505
- HAMERMESH, C. L.**
Ambient cure polyimide foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- HAMILTON, DAVID A.**
Pre-integrated truss space station and method of assembly
[NASA-CASE-MSC-22015-1] c 18 N93-20042
- HAMILTON, WILLIAM DAVID**
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- HAMLET, J. F.**
Automatic quadrature control and measuring system
[NASA-CASE-MFS-21660-1] c 35 N74-21017
LC-oscillator with automatic stabilized amplitude via bias current control
[NASA-CASE-MFS-21698-1] c 33 N74-26732
- HAMMACK, J. B.**
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- HAMMOND, A. D.**
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- HAMNER, RICHARD M.**
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
- HAMPTON, HERBERT R.**
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- HANCHEY, K. K.**
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- HANCOCK, BRUCE R.**
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- HAND, P. J.**
Temperature compensated digital inertial sensor
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- HANDLYKKEN, M. B.**
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- HANDSCHUH, ROBERT F.**
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- HANGER, R. T.**
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- HANKINSON, T. W. E.**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- HANNA, M. F.**
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
- HANSEN, CHRISTOPHER P.**
Landing gear energy absorption system
[NASA-CASE-MSC-22277-1] c 37 N94-29448
- HANSEN, D. O.**
Particle parameter analyzing system
[NASA-CASE-XLE-06094] c 33 N78-17293
- HANSEN, G. R.**
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- HANSEN, G. R., JR.**
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- HANSEN, I. G.**
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
- HANSEN, S.**
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- HANSON, M. P.**
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- HANSON, P. W.**
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
- HANSON, R. N.**
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- HANST, P. L.**
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
- HAQ, K. E.**
A method for the deposition of beta-silicon carbide by isopitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- HARADA, Y.**
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- HARALSON, H. S.**
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- HARAWAY, W. M., JR.**
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- HARD, T. M.**
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- HARDGROVE, W. F.**
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
- HARDY, J. C.**
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
- HARF, FREDRIC H.**
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- HARMAN, J. N., III**
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- HARMS, V. W.**
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- HAROULES, G. G.**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- HARPER-TERVET, J.**
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- HARPER, C. A.**
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- HARPER, L. L.**
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- HARPER, P. M., SR.**
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- HARPER, SAMUEL E., JR.**
Optical flameout detector
[NASA-CASE-LAR-14997-1] c 35 N94-29368
- HARRAP, V.**
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- HARRIGILL, W. T., JR.**
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
- HARRIS, D. M.**
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- HARRIS, FRANK W.**
Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- HARRIS, J. MILTON**
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
- HARRIS, R. F.**
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
- HARRIS, R. P.**
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- HARRIS, R. V., JR.**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- HARRIS, RICHARD A.**
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- HARRISON, D. R.**
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- HARRISON, DEAN R.**
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

- HARRISON, E. S.**
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- HARRISON, F. L.**
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- HARRISON, R. G., JR.**
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- HARSTAD, K. G.**
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- HART-SMITH, L. J.**
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- HARTENSTEIN, R. G.**
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- HARTING, D. R.**
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- HARTLEY, FRANK T.**
Leak detection utilizing analog binaural (VLSI) techniques
[NASA-CASE-NPO-18399-1-CU] c 33 N94-17323
- HARTMANN, M. J.**
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- HARTOP, R. W.**
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- HARTZ, LESLIE S.**
Thermally activated retainer means utilizing shape memory alloy
[NASA-CASE-MSC-21793-1] c 16 N94-20304
Extra-vehicular activity translation tool
[NASA-CASE-MSC-21955-1] c 37 N94-29428
- HARVEY, G. A.**
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
- HARVEY, ROBERT LYNN**
Apparatus for simulating an exoatmospheric structure
[NASA-CASE-MSC-21975-1] c 14 N94-20339
- HARVEY, W. D.**
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- HARWELL, R. J.**
Nonflammable coating compositions
[NASA-CASE-MFS-20486-2] c 27 N74-17283
- HARWELL, WILLIAM**
Geometrical vapor blocker for parallel condensation tubes requiring cooling
[NASA-CASE-MSC-22090-1] c 34 N94-15962
- HARWELL, WILLIAM D.**
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
- HASBACH, W. A.**
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- HASKELL, R. E.**
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
- HASLETT, R. A.**
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- HASLIM, L. A.**
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- HASLIM, LEONARD A.**
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- HASSAN, AHMED A.**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- HASSLER, J. M., JR.**
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- HASSON, D. F.**
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- HATAKEYAMA, L. F.**
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- HATCH, J. E.**
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- HATCHER, N. M.**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- HATFIELD, J. J.**
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- HATHAWAY, M. E.**
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
- HAUER, ROBERT L.**
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092
- HAUGE, G.**
Low distortion automatic phase control circuit
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- HAURY, V. E.**
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- HAUSER, J. A.**
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- Method of remotely characterizing thermal properties of a sample
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- Method and apparatus for evaluating multilayer objects for imperfections
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- High speed thin plate fatigue crack monitor
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- Acoustophoresis separation method
[NASA-CASE-LAR-13388-2] c 25 N93-20570
- Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N94-10671
- HEYMAN, JOSEPH SAUL.**
Mining volume measurement system
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- HEYMSFIELD, GERALD M.**
Method for ambiguity resolution in range-Doppler measurements
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- HEYSEY, R. C.**
Temperature control system with a pulse width modulated bridge
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- Method for shaping and aiming narrow beams
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- HEYSON, H. H.**
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- HICKS, LANA P.**
Nonaqueous slip casting of high temperature ceramic superconductors using an investment casting technique
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- HIEDA, L. S.**
Controller for computer control of brushless dc motors
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- HIGA, W. H.**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
- HIGBY, R. F.**
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

- HIGH, R. W.**
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- HILBERT, E. E.**
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
- HILBORN, E. H.**
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
- HILDEBRANDT, A. F.**
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- HILDNER, E.**
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- HILKER, W. R.**
Folding structure fabricated of rigid panels
[NASA-CASE-XHO-02146] c 18 N75-27040
- HILL, E. K.**
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- HILL, O. E.**
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
- Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
- HILL, P. R.**
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- Kinesthetic control simulator
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- HILL, W. E.**
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- HILL, WILLIAM E.**
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
- HILLBERG, E. T.**
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
- HILLBORN, E. H.**
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- HILLIS, D. A.**
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- HILLMAN, C. E., JR.**
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- HILLMAN, J. J.**
Thermal compensator for closed-cycle helium refrigerator
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- HILTON, G. E.**
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- HIMMELRIGHT, R. M.**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- HINEDI, SAMI M.**
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404
- HINKE, PATRICK THOMAS**
Manufacturing methods for machining spring ends parallel at loaded length
[NASA-CASE-MFS-28767-1] c 31 N94-29379
- HINKLEY, E. D., JR.**
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- HIRAYAMA, C.**
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

- HIRSHFIELD, S. M.**
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- HITCHMAN, M. J.**
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- HOBART, H. F.**
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- HOBBS, A. J.**
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- HOBERMAN, CHARLES**
Deployable reflector structure
[NASA-CASE-LAR-14513-1-SB] c 32 N94-29360
- HOBLIN, L. E.**
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- HOCHMAIR, E. S.**
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator
[NASA-CASE-MFS-22342-1] c 33 N75-30428
- HODDER, D. T.**
Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- HODGE, P. E.**
Corrosion resistant thermal barrier coating
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- HODGES, D. H.**
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- HODO, JAMES D.**
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- HOFFLER, G. W.**
Apparatus and method for processing Korotkov sounds
[NASA-CASE-MS-C-13999-1] c 52 N74-26626
Logic-controlled occlusive cuff system
[NASA-CASE-MS-C-14836-1] c 52 N82-11770
- HOFFMAN, C. A.**
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- HOFFMAN, D. G.**
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
- HOFFMAN, E. L.**
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
- HOFFMAN, H. C.**
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- HOFFMAN, I. S.**
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- HOFFMAN, L. A.**
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- HOFFMAN, T. E.**
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- HOFFMAN, WILLIAM C., III**
Four-terminal electrical testing device
[NASA-CASE-MS-C-21166-1] c 35 N87-25555
- HOHL, F.**
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- HOKLO, K. H.**
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- HOLBEN, MILFORD S., JR.**
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- HOLDEN, L. B.**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- HOLDEN, G. R.**
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- HOLDERER, O. C.**
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- HOLDERMAN, L. B.**
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- HOLDREN, R. T., III**
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- HOLDS, J. K.**
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
- HOLSKI, D. E.**
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- HOLKO, K. H.**
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Diffusion welding in air
[NASA-CASE-LEW-11387-1] c 37 N74-18128
Diffusion welding
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- HOLLAHAN, J. R.**
Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- HOLLAND, L. R.**
Apparatus and method for heating a material in a transparent ampoule
[NASA-CASE-MFS-25436-1] c 27 N83-36220
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- HOLLAND, S. DOUGLAS**
Electronic still camera
[NASA-CASE-MS-C-21797-1] c 35 N93-17076
- HOLLAND, V. B.**
Signal conditioning circuit apparatus
[NASA-CASE-ARC-10348-1] c 33 N75-19518
- HOLLANDER, J.**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- HOLLANHAN, J. R., JR.**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- HOLLEMAN, E. C.**
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- HOLLENBAUGH, R. C.**
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- HOLLEY, L. D.**
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- HOLLIDAY, M. L.**
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- HOLLIDAY, R. J.**
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
- HOLLIS, B. R., JR.**
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- HOLLOW, R. H.**
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- HOLLOWAY, SIDNEY E., III**
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173
- HOLMAN, E. V.**
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- HOLMAN, EARL V.**
Payload deployment method and system
[NASA-CASE-MS-C-21330-1] c 16 N88-24660
- HOLMES, B. K.**
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- HOLMES, BRUCE J.**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
Swept wing attachment line contamination fence
[NASA-CASE-LAR-13400-1] c 02 N93-22015
- HOLMES, H. K.**
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- HOLMES, HARLAN K.**
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- HOLMES, J. F.**
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- HOLMES, L., JR.**
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- HOLMES, M.**
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- HOLMES, R. F.**
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- HOLMES, RICHARD R.**
Method of fabricating a rocket engine combustion chamber
[NASA-CASE-MFS-28569-1] c 27 N94-20541
- HOLMES, S. J.**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- HOLMES, T. H.**
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- HOLMES, W. T.**
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- HOLMSTROM, F. R.**
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- HOLWACH, J.**
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- HOLT, H. M.**
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- HOLT, J. W.**
Attachment system for silica tiles
[NASA-CASE-MS-C-18741-1] c 27 N82-29456
Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- HOLT, N. I.**
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- HOLT, WILLIAM H.**
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- HOLTZE, R. F.**
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- HOLWAY, H. P.**
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- HOMKES, R. J.**
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
- HONESS, SHAWN B.**
Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130
- HONEY, R. W.**
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- HONEYCUTT, L. III**
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- HONG, J. P.**
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- HONG, S. D.**
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- HONNELL, M. A.**
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- HOOD, R. T.**
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
- HOOD, W. R.**
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- HOOKE, MATTHEW W.**
Nonaqueous slip casting of high temperature ceramic superconductors using an investment casting technique
[NASA-CASE-LAR-14918-1] c 31 N94-15881
Electrically conductive, thermally insulating cryogenic current leads
[NASA-CASE-LAR-14964-1-CU] c 33 N94-36781
- HOOP, J. M.**
Method and apparatus for nondestructive testing
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
- HOOPER, C. D.**
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- HOOPER, S. L.**
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- HOOVER, R. B.**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
Multiplate focusing collimator
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for retarding dye fading during archival storage of developed color photographic film
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
- HOOVER, R. J.**
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- HOOVER, RICHARD**
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- HOOVER, RICHARD B.**
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012
X-ray monochromator
[NASA-CASE-MFS-28492-1] c 74 N93-14711
- HOPKINS, P. M.**
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- HOPKINS, V.**
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03888] c 15 N71-21403
- HOPPER, J. H.**
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- HOPPING, R. L.**
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- HOPSON, PURNELL, JR.**
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
- HORNE, W. B.**
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- HORNE, WARREN L.**
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- HORNER, J. L.**
Optical noise suppression device and method
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- HORTON, D. B.**
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- HORTON, J. C.**
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- HORTTOR, R. L.**
Method and apparatus for mapping planets
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- KRAMER, J. S.**
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LAYLAND, J. W.

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- LANDAUER, F. P.**
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Multispectral imaging and analysis system
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M

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MACGLASHAN, W. F.
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Bellville spring assembly with elastic guides
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MADSEN, B.
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- MARSHALL, T. N., JR.**
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- Combined dual scatter, local oscillator laser Doppler velocimeter
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- PIPPEN, D. L.
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[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553

Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

Kinematic functions for redundancy resolution using configuration control
[NASA-CASE-NPO-18608-1-CU] c 63 N94-29504

SETZER, D.
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

SEWARD, H. H.
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409

SEYFFERT, M. B.
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

SEYL, J. W.
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

SHACK, R. V.
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

SHADOAN, MICHAEL D.
Apparatus for testing high pressure injector elements
[NASA-CASE-MFS-28773-1] c 37 N94-29365

SHADOAN, MIKE
Selectively lockable knee brace
[NASA-CASE-MFS-28991-1] c 54 N94-36838

SHADY, D. L.
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

SHAEFER, D. H.
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731

SHAFER, J. I.
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810

Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784

Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

SHAFER, STEVE
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397

SHAFER, C. V.
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

SHAH, BIREN N.
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404

SHAI, C. M.
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183

SHAI, M. C.
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156

Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-ARC-12883-1] c 27 N85-29044

SHAKKOTTAI, PARTHASARATHY
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421

SHALHOUB, I. M.
The 1,2,4-oxadiazole elastomers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338

SHALKAUER, MARY JO W.
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

SHALKHAUSER, KURT A.
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

SHALKHAUSER, MARY J.
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598

SHALTENS, R. K.
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

SHANKAR, N. K.
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

SHANKS, G. C.
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

SHANNON, R. L.
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913

SHANNON, R. R.
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

SHAPIRO, H.
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788

Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489

SHARMA, G. C.
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

SHARMA, M. M.
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

SHARMA, PRAMOD K.
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

High temperature sorbents for oxygen
[NASA-CASE-NPO-18409-1-CU] c 25 N94-35255

SHARPE, M. H.
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

SHARPE, MAX H.
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123

SHATAZSKY, R.
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

SHATTUCK, R. D.
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

SHAW, C. S.
Exhaust flow deflector
[NASA-CASE-LAR-11570-1] c 34 N76-18364

SHAW, D. S.
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

SHAW, G. C.
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

SHAW, R. C.
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

SHAW, SCOTT
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

SHEARER, C. H.
Stabilized lanthanum sulphur compounds
[NASA-CASE-NPO-16135-1] c 25 N83-24572

SHEETS, R. E.
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551

SHEFSIEK, P. K.
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184

Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

SHEIBLEY, D. W.
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-1] c 44 N79-17313

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

In-situ cross linking of polyvinyl alcohol
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] c 33 N84-14422

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

SHELUK, B.
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482

SHELTON, G. B.
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865

SHELTON, J. P., JR.
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

SHELTON, R. D.

Electron beam instrument for measuring electric fields
Patent
[NASA-CASE-XMF-10289] c 14 N71-23699

SHELTON, ROBERT O.

Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MSC-21940-1] c 37 N92-30540
Method and apparatus for filtering visual documents
[NASA-CASE-MSC-22093-1] c 82 N93-22017
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N93-29610
Neural network for processing both spatial and temporal data with time based back-propagation
[NASA-CASE-MSC-21874-1] c 63 N94-20366

SHEN, DAVID H.

Dendrite preventing separator for secondary lithium batteries
[NASA-CASE-NPO-18585-1-CU] c 33 N94-29411

SHEPARD, C. E.

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

SHEPARD, L. F.

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

SHEPARD, N. F., JR.

Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753

SHEPARD, S. K.

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SHEPHERD, KEVIN P.

Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

SHER, A.

Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

SHERBURNE, A. E.

Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442

SHERFEY, J. M.

Bonded elastomeric seal for electrochemical cells
Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371

SHERIDAN, PHILIP L.

Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221

SHERMAN, A.

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SHERWIN, E. J.

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786

SHETH, S.

Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c 27 N78-32262

SHETH, S. G.

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

SHEWMAKE, G. A.

Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857

Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

SHIEBER, H.

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

SHIELDS, NICHOLAS L.

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

SHIGEMOTO, F. H.

Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828

SHIHABI, MAZEN M.

Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404

SHILLINGER, G. L., JR.

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

SHIM, I. H.

Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831

SHIMA, R.

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684

SHIMADA, K.

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421

Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048

Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

SHIMANSKY, R. A.

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

SHIMIZU, M.

Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

SHIMODA, K.

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

SHING, Y. H.

Diamond composite films for protective coatings on metals and method of formation
[NASA-CASE-NPO-18501-1-CU] c 27 N93-28426

SHIRA, C. S.

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

SHIRE, L. I.

Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

SHLICHTA, P. J.

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760

SHLICHTA, PAUL J.

Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

SHLOSINGER, A. P.

Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336

Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337

SHORES, P. W.

Position determination systems
[NASA-CASE-MSC-12593-1] c 17 N76-21250

Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

SHORES, PAUL

Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

SHORES, PAUL W.

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

SHORTBRIDGE, S. R.

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

SHRIVER, C. B.

Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

SHRIVER, C. L.

Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

SHRIVER, E. L.

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

Self-energized plasma compressor
[NASA-CASE-MFS-22145-1] c 75 N75-13625

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHROCK, C. G.

Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

SHUBE, E. E.

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

SHULER, R. L., JR.

Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863

SHULL, T. A.

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

SHULMAN, A. R.

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

SHUMATE, M. S.

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867

Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

SHUMKA, A.

Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

SHURE, L. I.

Protected isotope heat source
[NASA-CASE-LEW-11227-1] c 73 N75-30876

SHUTE, D. I.

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

SIDMAN, K. R.

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c 27 N78-32262

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

SIDNEY, BARRY D.

Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

SIDORAK, L. G.

Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601

- SIEBERT, C. J.**
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
- SIEGEL, B.**
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
- SIEGEL, C. M.**
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- SIEGMAN, A. E.**
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- SIERADSKI, L. M.**
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- SIEVERS, M. W.**
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- SIEWERT, R. D.**
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- SIGFRED, J.**
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- SIGNORELLI, R. A.**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- SIGUR, W. A.**
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
- SIKORA, P. F.**
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- SIKORRA, D. J.**
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
- SILCOX, RICHARD J.**
Method and apparatus for minimizing multiple degree of freedom vibration transmission between two regions of a structure
[NASA-CASE-LAR-14508-1-CU] c 39 N93-13420
- SILVER, R. H.**
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Subminiature insertable force transducer
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- SILVERMAN, J. R.**
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- SILVERTSON, W. E., JR.**
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209
- SILVESTER, JOHN A.**
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
- SIMAS, V. R.**
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- SIMCHICK, RICHARD T.**
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- SIMMONDS, M. R.**
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
- SIMMONDS, P. G.**
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- SIMMONS, G. M.**
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[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Aerospace vehicle**
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- TAYLOR, ALLAN H.**
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- Lightweight piston**
[NASA-CASE-LAR-13150-1] c 24 N87-27742
- Composite piston**
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- Cryogenic insulation system**
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- Lightweight piston architecture**
[NASA-CASE-LAR-13926-1] c 37 N90-22042
- TAYLOR, C. J.**
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- TAYLOR, GERALD R.**
Portable dynamic fundus instrument
[NASA-CASE-MS-C-21675-1] c 52 N92-28755
- TAYLOR, J. R.**
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- TAYLOR, L. L.**
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- TAYLOR, L. T.**
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Electrically conductive palladium containing polyimide films**
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- TAYLOR, L. V.**
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
- TAYLOR, M. S.**
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- TAYLOR, PATRICK J.**
Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912
- TAYLOR, R. A.**
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
- TAYLOR, R. C.**
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- TAYLOR, R. E.**
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Polarization diversity monopulse tracking receiver Patent**
[NASA-CASE-XGS-03501] c 09 N71-20864
- Electromagnetic polarization systems and methods Patent**
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- Method and automated apparatus for detecting coliform organisms**
[NASA-CASE-MS-C-16777-1] c 51 N80-27067
- Navigation system and method**
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- TAYLOR, T. I.**
Metabolic rate meter and method
[NASA-CASE-MS-C-12239-1] c 52 N79-21750
- TAYLOR, THEODORE D.**
Nonaqueous slip casting of high temperature ceramic superconductors using an investment casting technique
[NASA-CASE-LAR-14918-1] c 31 N94-15881
- TCHERNEV, D. I.**
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- TE POEL, H. E.**
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- TEGNELIA, C. R.**
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
- TEITELBAUM, S.**
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- TELFER, T. A.**
Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- TEMPLE, H. E.**
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt**
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- TENER, W. M.**
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- TENG, R. N.**
Collapsible pistons
[NASA-CASE-MS-C-13789-1] c 11 N73-32152
- TENNEY, J. B., JR.**
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- TENOSO, H. J.**
Water system virus detection
[NASA-CASE-MS-C-16098-1] c 51 N79-10693

- TEPPER, E. H.**
Regenerative device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
- TERP, L. S.**
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- TERRAY, A.**
Method of making an apertured casting
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- TERRELL, KYLE**
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- TERSELIĆ, R. A.**
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
- TERVET, F. W.**
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- TESINSKY, J. S.**
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- TETSUKA, G. M.**
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- THAKOOR, A. P.**
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- THAKOOR, ANILKUMAR**
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- THAKOOR, ANILKUMAR P.**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
Electronic neural network for solving traveling salesman and similar global optimization problems
[NASA-CASE-NPO-17807-2-CU] c 63 N94-20360
- THAKOOR, SARITA**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277
- THALER, S.**
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- THALLER, L. H.**
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- THATCHER, C. S.**
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- THEAKSTON, H. A.**
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- THEISS, M.**
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- THIBODAUX, J. G., JR.**
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
- THIEL, A. M.**
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- THIELE, C.**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- THIELE, C. L.**
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- THIESSEN, DAVID L.**
Method and apparatus for removing unwanted reflections from an interferometer
[NASA-CASE-NPO-18478-1-CU] c 74 N94-35749
- THOLE, J. M.**
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- THOM, K.**
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
- THOMAS, ANDREW S. W.**
Correction-free pyrometry in radiant wall furnaces
[NASA-CASE-NPO-18655-1-CU] c 35 N94-35114
- THOMAS, CLARK S.**
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399
- THOMAS, D. F., JR.**
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Kinesthetic control simulator
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- THOMAS, H. M.**
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- THOMAS, JESS BROOKS, JR.**
Method of implementing digital phase-locked loops
[NASA-CASE-NPO-18757-1-CU] c 33 N94-29374
- THOMAS, N. E.**
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- THOMAS, N. L.**
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- THOMAS, R. D.**
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouple tape
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- THOMAS, R. R.**
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- THOMASON, H. E.**
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Azimuth laying system Patent
[NASA-CASE-MFS-01669] c 21 N71-23289
- THOMPSON, G. D., JR.**
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
- THOMPSON, J. R., JR.**
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- THOMPSON, R. B.**
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- THOMPSON, R. E.**
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
- THOMPSON, S. W.**
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- THOMPSON, W. W.**
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
- THOMSON, A. R.**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
- THOMSON, J. A. L.**
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- THORNHILL, J. W.**
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- THORNTON, G. E.**
Hole cutter
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- THORNTON, W. E.**
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- THORNTON, WILLIAM E.**
Apparatus and method for measuring subject work rate on an exercise device
[NASA-CASE-MSC-21752-1] c 54 N94-20194
- THORNTON, WILLIAM E., JR.**
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- THORNWALL, J. C.**
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- THORPE, R. S.**
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- THRASHER, JOSEPH S.**
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Process to prepare 1,3-diamino-5-pentafluorosulfanylbenzene
[NASA-CASE-LAR-14773-2-CU] c 25 N93-29506
- THYS, P. C.**
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- TIBBITTS, W. C.**
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
- TICKNER, E. G.**
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- TIEFERMANN, M. W.**
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- TILLER, N. G.**
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
- TILLER, NEWTON G.**
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- TIMM, J. D.**
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- TIMOR, U.**
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- TINLING, B. E.**
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- TISCHLER, R. F.**
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- TISDALE, H. F., SR.**
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- TITLE, A. M.**
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- TITUS, L. E.**
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
- TOBIAS, R. A.**
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
- TOCK, R. W.**
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

- TODD, H. H.**
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- TOFT, A. R.**
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- TOLL, T. A.**
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- TOLSON, B. A.**
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- TOM, H. Y.**
Ionomer membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- TOMBRELLI, T. A.**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- TOMLINSON, H. M.**
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- TOMLINSON, L. E.**
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
- TONGIER, M., JR.**
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- TOOLE, P. C.**
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- TOOLE, PIERCE C.**
Multi-adjustable headband
[NASA-CASE-KSC-11322-1] c 54 N89-29953
- TOOMARIAN, NIKZAD**
Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085
Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276
A neural network with modular hierarchical learning
[NASA-CASE-NPO-19077-1-CU] c 63 N94-29492
- TOOTS, J.**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- TOPITS, A., JR.**
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
- TORBETT, M. A.**
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- TORNEY, F. L., JR.**
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
- TOTH, L. R.**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- TOWELL, TIMOTHY W.**
Preparing polymeric matrix composites using an aqueous slurry technique
[NASA-CASE-LAR-14771-1] c 27 N94-23076
- TOWNES, C. H.**
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- TOWNSEND, M. R.**
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
- TOWNSEND, WILLIAM T.**
Force reflecting hand controller
[NASA-CASE-NPO-17851-1-CU] c 37 N93-23078
- TOY, M. S.**
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
Violet-violet process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- TRADER, A. G.**
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- TRAJMAR, SANDOR**
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
- TRAN, SANG Q.**
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493
- TRAUGER, JOHN T.**
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N94-10657
- TRAVIS, E. W.**
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
- TRELEASE, R. B.**
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- TRENT, R. C.**
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- TRENT, R. L.**
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- TRI, TERRY O.**
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- TRIMARCHI, PAUL A.**
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- TRIMBLE, CURTIS A.**
Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- TRIMBLE, D. W.**
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- TRIMPL, R. L.**
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- TRINH, E. H.**
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- TRINH, EUGENE H.**
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- TRINH, TINH T.**
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- Method for culturing mammalian cells in a horizontally rotated bioreactor
[NASA-CASE-MSC-21294-2] c 51 N93-10110
- TRIOLO, J. J.**
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
- TRIPP, C. N.**
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
- TRISCHLER, F. D.**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- TROEGER, R. E.**
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- TROMBKA, J. I.**
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- TROST, R. F.**
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- TROUT, O. F., JR.**
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- TROWBRIDGE, D. L.**
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- TRUBERT, M. R.**
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- TRUONG, TRIU-KIE**
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011
- TRUSCH, R. B.**
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
- TRUSSELL, D. H.**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- TSAL, LUNG-WEN**
Simplified and symmetrical five-bar linkage driver for manipulating a six-degree-of-freedom parallel manipulator with three inextensible limbs
[NASA-CASE-GSC-13485-2] c 37 N94-29556
Six-degree-of-freedom parallel manipulator with three inextensible limbs
[NASA-CASE-GSC-13485-1] c 35 N94-29726
- TSCHIRCH, R. P.**
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
- TSCHIRCH, RICHARD**
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
- TSCHUNKO, H. F. A.**
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
- TSO, KAM S.**
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N94-10670

- TSUDA, G. I.**
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- TSUO, Y. H.**
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- TSUTSUMI, K.**
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- TUBBS, E. F.**
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- TUBBS, H. E.**
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- TUCKER, C. E.**
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- TUCKER, DENNIS S.**
Production of mulitile fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- TUCKER, E. M.**
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
- TUCKER, JERRY H.**
Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541
- TUGGLE, R. H., JR.**
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- TULEY, E. N.**
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- TULLOS, GORDON L.**
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
- TUMULTY, W. T., JR.**
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
- TUNG, Y.**
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- TURK, R. R.**
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- TURLY, A. P.**
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- TURNAGE, J. E.**
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- TURNER, G. B.**
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- TURNER, J. W.**
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- TURNER, JAMES ERIC**
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
- TURNER, R. C.**
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- TURNER, R. E.**
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- TURNER, T. M.**
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- TURNER, T. R.**
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
- TUTHILL, WALLACE C.**
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
- TUTHILL, WALLACE C., JR.**
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305
- TUTTLE, S. A.**
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

- TYEITAN, W.**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- TWARD, E.**
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- TYAGI, R. C.**
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- TYCZ, M.**
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
- TYLER, A. L.**
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- TYREE, V. C.**
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

U

- UBER, P. W.**
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- ULRICH, B. R.**
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- ULRICH, D. R.**
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- ULRICH, G. W.**
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- UNDERWOOD, J. H.**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multiplate focusing collimator
[NASA-CASE-MSC-20932-1] c 35 N75-19616
- UNDERWOOD, MARK L.**
AMTEC vapor-vapor series connected cells
[NASA-CASE-NPO-18667-1-CU] c 33 N93-19330
- UNGAR, EUGENE**
Geometrical vapor blocker for parallel condensation tubes requiring cooling
[NASA-CASE-MSC-22090-1] c 34 N94-15962
- UNNAM, JALAJAH**
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- UPCHURCH, BILLY T.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- UPDIKE, O. L.**
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- UPTON, D. T.**
Scanner
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- URBAN, E. W.**
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- URSERY, B. C.**
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

V

- VADAKAN, V. V.**
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- VAICAITIS, RIMAS**
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
- VAIRO, DANIEL M.**
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

- VALENTIJN, H. P.**
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- VALINSKY, J. P.**
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- VALLOTTON, W. C.**
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
- VANALSTINE, JAMES M.**
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728
- VANALSTYNE, E. M.**
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- VANARK, WILLIAM B.**
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- VANARNAM, D. E.**
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- VANATTA, L. C.**
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- VANAUKEN, R.**
Reinforced polyquinoxaline gasket and method of preparing the same
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- VANBUSKIRK, PAUL D.**
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- VANDAMM, GEORGE A.**
Rotary blood pump
[NASA-CASE-MSC-22424-1] c 37 N94-29370
- VANDEBERGHE, MARK H.**
Robot-friendly connector
[NASA-CASE-MSC-21864-1] c 37 N93-20117
- VANDERHOFF, J. W.**
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- VANDERIJET, E. K.**
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- VANDERSANDE, JAN W.**
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- VANGO, S. P.**
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- VANNORMAN, JOHN D.**
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
- VANNUCCI, R. D.**
Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- VANNUCCI, RAYMOND D.**
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N94-35234
- VANO, A. E.**
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- VANORNUM, D. G.**
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- VANSCHOIACK, M. M. E.**
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

- VANTUYLRUSCH, W.**
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- VANWARREN, LLOYD**
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543
- VANZYL, JAKOB J.**
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
- VARGO, D. J.**
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
- VARMA, I. K.**
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- VARS, G.**
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- VARY, A.**
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- VASILAKOS, N.**
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- VASQUEZ, PETER**
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Nonaqueous slip casting of high temperature ceramic superconductors using an investment casting technique
[NASA-CASE-LAR-14918-1] c 31 N94-15881
Improved ceramic slip casting technique
[NASA-CASE-LAR-14471-1] c 27 N94-20377
- VASQUEZ, RICHARD P.**
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
Long wavelength infrared detector
[NASA-CASE-NPO-17543-2-CU] c 35 N93-19387
Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501
- VAUGHAN, ARTHUR H.**
Wide-angle imaging system with fiberoptic components providing angle-dependent virtual material stops
[NASA-CASE-NPO-18146-1-CU] c 74 N94-20345
- VAUGHAN, G. R.**
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- VAUGHAN, O. H.**
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- VAUGHAN, R. L.**
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
- VAUGHAN, R. W.**
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- VAUSE, R.**
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- VEHRENCAMP, J. E.**
Electromagnetic radiation energy arrangement
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- VEIKINS, O.**
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- VEILLETTE, L. J.**
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- VEITCH, LISA C.**
Guandine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-2] c 27 N93-28423
Guandine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N94-20195
- VELLEND, H.**
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- VENEMA, STEVEN C.**
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284
- VENKATARAMAN, SUBRAMANIAN T.**
Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177
- VENKATARAMAN, SUBRAMANIAN T.**
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
- VENKATESH, CHIKKABELARANGALA N.**
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- VERES, JOSEPH P.**
Method of reducing hydraulic instability
[NASA-CASE-LEW-15463-1] c 34 N94-29539
- VERINDER, IRENE E.**
Pre-integrated truss space station and method of assembly
[NASA-CASE-MSC-22015-1] c 18 N93-20042
- VERMILLION, C. H.**
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- VERMILLION, C. M.**
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
- VERNIKOS, J.**
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- VESSOT, R. F. C.**
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- VEST, THOMAS W.**
Prosthetic helping hand
[NASA-CASE-MFS-28430-1] c 54 N92-24044
Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N93-14870
- VICK, A. R.**
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
- VICK, H. A.**
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- VICKERS, E. C.**
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- VICKERS, J. M.**
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- VICKERS, J. M. F.**
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- VIEMANN, W.**
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- VIKINSALO, S. J.**
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- VIJGEN, PAUL M. H. W.**
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- VILLARREAL, JAMES A.**
Neural network for processing both spatial and temporal data with time based back-propagation
[NASA-CASE-MSC-21874-1] c 63 N94-20366
- VILLARREAL, S.**
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- VILNROTTER, VICTOR A.**
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
- VINAL, A. W.**
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
- VINCENT, J. S.**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- VINCENT, LAURENCE J.**
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- VINE, J.**
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- VIVIAN, H. C.**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- VLASSE, MARCUS**
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- VODICKA, V. W.**
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- VOECKS, GERALD E.**
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
Catalytic ignitor for regenerative propellant gun
[NASA-CASE-NPO-18987-1-CU] c 28 N94-29490
- VOELLMER, GEORGE**
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N93-18286
- VOELLMER, GEORGE M.**
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-1] c 37 N92-24243
Retractable tool bit having slider type catch mechanism
[NASA-CASE-GSC-13358-1] c 37 N93-14710
Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-2] c 37 N93-17625
Split rail gripper assembly and tool driver therefor
[NASA-CASE-GSC-13370-2] c 37 N93-18288
Split rail gripper assembly and tool driver therefor
[NASA-CASE-GSC-13370-1] c 37 N93-31317
- VOGELEY, A. W.**
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WELLS, I. D.

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- Low onset rate energy absorber
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- The dc-to-dc converters employing staggered-phase power switches with two-loop control
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- Phase substitution of spare converter for a failed one of parallel phase staggered converters
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WILLIAMS, E. F.

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 [NASA-CASE-NPO-14519-1] c 32 N80-23524
- WILLIAMSEN, JOEL E.**
 Pressure wall patch
 [NASA-CASE-MFS-28724-1] c 18 N94-23824
- WILLIS, A. E.**
 Static inverters which sum a plurality of waves Patent
 [NASA-CASE-XMF-00663] c 08 N71-18752
 A dc to dc converter
 [NASA-CASE-MFS-25430-1] c 33 N84-18453
- WILLIS, PAUL B.**
 Predictive aging of polymers
 [NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- WILLNER, K.**
 Inverter oscillator with voltage feedback
 [NASA-CASE-NPO-10760] c 09 N72-25254
- WILNER, B. M.**
 Electrolytically regenerative hydrogen-oxygen fuel cell Patent
 [NASA-CASE-XLE-04526] c 03 N71-11052
- WILSON, A. H.**
 Vehicular impact absorption system
 [NASA-CASE-NPO-14014-1] c 37 N79-10420
- WILSON, D. J.**
 Wind measurement system
 [NASA-CASE-MFS-23362-1] c 47 N77-10753
- WILSON, E. M.**
 Wind tunnel
 [NASA-CASE-LAR-10135-1] c 09 N79-21083
- WILSON, I. J.**
 Method of producing complex aluminum alloy parts of high temper, and products thereof
 [NASA-CASE-MSC-19693-1] c 26 N78-24333
- WILSON, J. C.**
 Exhaust flow deflector
 [NASA-CASE-LAR-11570-1] c 34 N76-18364
 Helicopter anti-torque system using strakes
 [NASA-CASE-LAR-13233-1] c 05 N84-33400
- WILSON, JOHN C.**
 Helicopter anti-torque system using fuselage strakes
 [NASA-CASE-LAR-13630-1] c 08 N88-23809
 Helicopter low-speed yaw control
 [NASA-CASE-LAR-14219-1] c 08 N93-25998
- WILSON, L. R.**
 Phase modulating with odd and even finite power series of a modulating signal
 [NASA-CASE-LAR-11607-1] c 32 N77-14292
- WILSON, M. E.**
 Wide-angle flat field telescope
 [NASA-CASE-GSC-12825-1] c 74 N86-28732
- WILSON, M. L.**
 Nondestructive spot test method for titanium and titanium alloys
 [NASA-CASE-LAR-10539-1] c 17 N73-12547
 Nondestructive spot test method for magnesium and magnesium alloys
 [NASA-CASE-LAR-10953-1] c 17 N73-27446
- WILSON, M. N., JR.**
 Space simulator Patent
 [NASA-CASE-XNP-00459] c 11 N70-38675
- WILSON, MAYWOOD L.**
 Puttusion die assembly
 [NASA-CASE-LAR-13719-1] c 37 N89-12867
 Continuous fiber thermoplastic prepreg
 [NASA-CASE-LAR-14459-1] c 24 N93-24597
- WILSON, R. E.**
 Automatic pump Patent
 [NASA-CASE-XNP-04731] c 15 N71-24042
- WILSON, R. L.**
 Twin-capacitive shaft angle encoder with analog output signal
 [NASA-CASE-ARC-10897-1] c 33 N77-31404
- WILSON, T. G.**
 Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
 [NASA-CASE-HQN-10792-1] c 33 N74-11049
- WILSON, T. L.**
 Automatic flowmeter calibration system
 [NASA-CASE-KSC-11076-1] c 34 N81-26402
- WILSON, W. A.**
 Methods and apparatus employing vibratory energy for wrenching Patent
 [NASA-CASE-MFS-20586] c 15 N71-17686
- WILSON, W. O.**
 Rocket chamber leak test fixture
 [NASA-CASE-XFR-09479] c 14 N69-27503
- WIMBER, R. T.**
 Silicide coatings for refractory metals Patent
 [NASA-CASE-XLE-10910] c 18 N71-29040
- WINBLADE, R. L.**
 Energy management system for glider type vehicle Patent
 [NASA-CASE-XFR-00756] c 02 N71-13421
- WINCHESKI, BUZZ A.**
 High speed thin plate fatigue crack monitor
 [NASA-CASE-LAR-14816-1-SB] c 39 N93-19329
- WINFREE, WILLIAM P.**
 Thermal remote anemometer system
 [NASA-CASE-LAR-13508-1] c 35 N92-21710
 Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
 [NASA-CASE-LAR-14559-1] c 38 N92-29829
 Method of remotely characterizing thermal properties of a sample
 [NASA-CASE-LAR-13508-3-CU] c 09 N93-11057
 Rapid detection and quantification of features such as damage or flaws in composite and metallic structures
 [NASA-CASE-LAR-14850-1-CU] c 38 N93-17048
 Low dielectric polyimides
 [NASA-CASE-LAR-14987-2] c 27 N94-17559
- WING, L. D.**
 Automatic thermal switch
 [NASA-CASE-GSC-12415-1] c 33 N82-24419
 Automatic thermal switch
 [NASA-CASE-GSC-12553-1] c 34 N83-28356
- WINGFIELD, G. A.**
 Resonant waveguide stark cell
 [NASA-CASE-LAR-11352-1] c 33 N75-26245
- WINIARSKI, F. J.**
 Wobble gear drive mechanism
 [NASA-CASE-WOO-00625] c 37 N78-17385
- WINITZ, M.**
 Amino acid analysis
 [NASA-CASE-NPO-12130-1] c 25 N75-14844
 Reduction of blood serum cholesterol
 [NASA-CASE-NPO-12119-1] c 52 N75-15270
- WINKELSTEIN, R. A.**
 Noninterruptable digital counting system Patent
 [NASA-CASE-XNP-09759] c 08 N71-24891
 Controlled oscillator system with a time dependent output frequency
 [NASA-CASE-NPO-11962-1] c 33 N74-10194
- Baseband signal combiner for large aperture antenna array
 [NASA-CASE-NPO-14641-1] c 32 N81-29308
- WINKLER, C. E.**
 Static inverters which sum a plurality of waves Patent
 [NASA-CASE-XMF-00663] c 08 N71-18752
- WINKLER, H. E.**
 Electrophotolysis oxidation system for measurement of organic concentration in water
 [NASA-CASE-MSC-16497-1] c 25 N82-12166
 Bio-medical flow sensor
 [NASA-CASE-MSC-18761-1] c 52 N83-27577
- WINKLER, ROGER V.**
 Pressurized bellows flat contact heat exchanger interface
 [NASA-CASE-MSC-21271-1] c 34 N90-21999
- WINKLER, T.**
 AC logic flip-flop circuits Patent
 [NASA-CASE-XGS-00823] c 10 N71-15910
- WINN, L. E.**
 Ellipsograph for pantograph Patent
 [NASA-CASE-XLA-03102] c 14 N71-21079
 Lathe tool bit and holder for machining fiberglass materials
 [NASA-CASE-XLA-10470] c 15 N72-21489
 Liquid waste feed system
 [NASA-CASE-LAR-10365-1] c 05 N72-27102
- WINTUCKY, E. G.**
 Ion sputter textured graphite
 [NASA-CASE-LEW-12919-1] c 24 N83-10117
 Ion sputter textured graphite electrode plates
 [NASA-CASE-LEW-12919-2] c 70 N84-28565
- WIRTH, M. N.**
 Selective data segment monitoring system
 [NASA-CASE-ARC-10899-1] c 60 N77-19760
- WISANDER, D. W.**
 Fully plasma-sprayed compliant backed ceramic turbine seal
 [NASA-CASE-LEW-13268-2] c 37 N82-26674
 Fully plasma-sprayed compliant backed ceramic turbine seal
 [NASA-CASE-LEW-13268-1] c 27 N82-29453
 Laser surface fusion of plasma sprayed ceramic turbine seals
 [NASA-CASE-LEW-13269-1] c 18 N83-20996
 Method of fabricating an abradable gas path seal
 [NASA-CASE-LEW-13269-2] c 37 N84-22957
- WISE, R. C.**
 Space suit
 [NASA-CASE-MSC-12609-1] c 05 N73-32012
- WISE, STEPHANIE A.**
 Nonaqueous slip casting of high temperature ceramic superconductors using an investment casting technique
 [NASA-CASE-LAR-14918-1] c 31 N94-15881
 Electrically conductive, thermally insulating cryogenic current leads
 [NASA-CASE-LAR-14964-1-CU] c 33 N94-36781
- WISE, T. E.**
 Microwave dichroic plate
 [NASA-CASE-GSC-12171-1] c 33 N79-28416
- WITHEROW, W. K.**
 Dual laser optical system and method for studying fluid flow
 [NASA-CASE-MFS-25315-1] c 36 N83-29680
 Method of and apparatus for double-exposure holographic interferometry
 [NASA-CASE-MFS-25405-1] c 35 N84-22929
- WITHEROW, WILLIAM K.**
 A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
 [NASA-CASE-MFS-28183-1] c 74 N89-13253
 Dual wavelength holographic interferometry system
 [NASA-CASE-MFS-28242-1] c 35 N89-26202
 X ray sensitive area detection device
 [NASA-CASE-MFS-28232-1] c 74 N91-14835
 Hanging drop crystal growth apparatus
 [NASA-CASE-MFS-26061-1] c 76 N91-16815
 Radiation sensitive area detection device and method
 [NASA-CASE-MFS-28563-1] c 35 N91-25388
- WITTE, R. S.**
 Gas ion laser construction for electrically isolating the pressure gauge thereof
 [NASA-CASE-MFS-22597] c 36 N78-17386
- WITTMANN, A. E.**
 Method of coating circuit paths on printed circuit boards with solder Patent
 [NASA-CASE-XMF-01599] c 09 N71-20705
- WITTROCK, E. P.**
 Metal shearing energy absorber
 [NASA-CASE-HQN-10638-1] c 15 N73-30460
- WITTRY, DAVID B.**
 Dual cathode system for electron beam instruments
 [NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

- WITZKE, W. R.**
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- WOBIG, O. A.**
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- WOELLER, F. H.**
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- WOELLER, FRITZ H.**
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- WOJCIECHOWSKI, C. J.**
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- WOJTASINSKI, R. J.**
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Electric field measuring and display system
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- WOLCZOK, J. M.**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- WOLF, C. B.**
Method of producing silicon
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- WOLF, D. A.**
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- WOLF, DAVID A.**
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
High aspect reactor vessel and method of use
[NASA-CASE-MSC-21662-1] c 51 N92-34232
Method for culturing mammalian cells in a perfused bioreactor
[NASA-CASE-MSC-21293-2] c 51 N93-10109
Method for culturing mammalian cells in a horizontally rotated bioreactor
[NASA-CASE-MSC-21294-2] c 51 N93-10110
Cultured normal mammalian tissue and process
[NASA-CASE-MSC-21984-1] c 51 N94-15969
Multi-cellular, three-dimensional living mammalian tissue
[NASA-CASE-MSC-21560-2] c 51 N94-35232
- WOLF, F. T.**
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- WOLF, M. F.**
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- WOLF, PETER**
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
Poly(1,2,4-triazole) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N93-18283
Di(hydroxyphenyl)-1,2,4-triazole monomers
[NASA-CASE-LAR-14440-2] c 27 N94-23075
- WOLFE, J. F.**
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- WOLFF, J. R.**
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- WOLLER, J. A.**
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- WOLOWICZ, C. H.**
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- WOLTHUIS, R. A.**
Contourgraph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Apparatus and method for processing Korotkov sounds
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- WOLVERTON, B. C.**
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- WOLVERTON, BILLY C.**
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
- WONG, R. Y.**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
- WONG, W. J.**
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- WOO, K. E.**
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
- WOO, KENNETH E.**
A satellite-tracking millimeter-wave reflector antenna system for mobile satellite-tracking
[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955
- WOO, R. T.**
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- WOOD, A. D.**
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- WOOD, C. E.**
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- WOOD, CHARLES**
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- WOOD, G. E.**
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- WOOD, G. M.**
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- WOOD, G. M., JR.**
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- WOOD, G. P.**
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- WOOD, GEORGE M.**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- WOOD, J. W.**
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- WOOD, K. E.**
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- WOOD, L. L.**
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- WOOD, P. C.**
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- WOOD, R. A.**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- WOOD, R. C.**
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- WOOD, RICHARD M.**
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Almond test body
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387
- WOOD, WILLIAM B.**
Quick acting gimbal joint
[NASA-CASE-MSC-21918-1] c 37 N93-23076
- WOODARD, STANLEY E.**
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
- WOODBURY, R. C.**
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- WOODGATE, B. E.**
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
- WOODHOUSE, CHRISTOPHER E.**
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
- WOODIE, P. E.**
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- WOODS, G. J.**
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- WOODS, G. M., JR.**
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- WOODS, J. M.**
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
- WOOLFSON, M. G.**
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
- WOOLLAM, J. A.**
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Atomic hydrogen storage
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- WORKING, DENNIS C.**
Vacuum powder injector and method of impregnating fiber with powder
[NASA-CASE-LAR-14179-1] c 31 N93-26101
- WORNOM, D. E.**
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
- WORTMAN, J. J.**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

WORTMAN, JIM J.

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

WREN, PAUL E.

Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

WRIGHT, D. B.

Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

WRIGHT, D. E.

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

WRIGHT, E. E., JR.

System for sterilizing objects
[NASA-CASE-KSC-11085-1] c 54 N81-24724

WRIGHT, JAY M.

Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150

WRIGHT, KENNETH D., II

Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386

WRIGHT, L. N.

Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

WRIGHT, LAWRENCE T.

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

WRIGHT, W. H.

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

WRINKLE, W. W.

Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296

WU, C.

Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123

WU, C.

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

WU, C.

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

WU, C.

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

WU, C.

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

WU, CHWAN-HWA

Unipolar terminal-attractor based neural associative memory with adaptive threshold
[NASA-CASE-NPO-18790-1-CU] c 63 N94-15958

WU, JIUN-JUNG

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704

WU, JIUN-JUNG

Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

WU, MITCHELL B.

Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866

WU, TE-KAO

Wide angle, single screen, gridded square-loop frequency selective surface for duplexing two closely separated frequency bands
[NASA-CASE-NPO-18664-1-CU] c 89 N94-17438

WU, Y. C.

Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

WUENSCHER, H. F.

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

WUENSCHER, H. F.

Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

WUENSCHER, H. F.

Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214

WUENSCHER, H. F.

Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387

WUENSCHER, H. F.

Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

WUERKER, R. F.

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

WUERKER, R. F.

Microbalance
[NASA-CASE-MSC-11242] c 35 N78-17358

WYBLE, C. W.

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

WYDEVEN, T.

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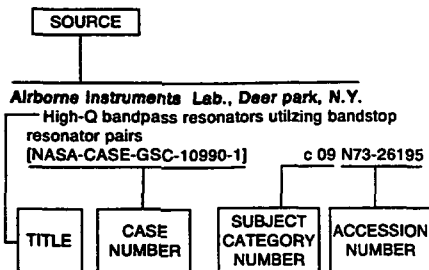
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- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
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- American Air Filter Co., Inc., Saint Louis, MO.**
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- American Optical Co., Pittsburgh, PA.**
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- American Optical Co., Southbridge, MA.**
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- American Science and Engineering, Inc., Cambridge, MA.**
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Ampex Corp., Redwood City, CA.**
Method for making conductors for ferrite memory arrays
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- Anocut Engineering Co., Chicago, IL.**
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- Applied Magnetics Corp., Goleta, CA.**
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Applied Space Products, Inc., Palo Alto, CA.**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
- Army Air Mobility Research and Development Lab., Hampton, VA.**
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Army Aviation Research and Development Command, Moffett Field, CA.**
Clutchless multiple drive source for output shaft
[NASA-CASE-XRC-11325-1] c 37 N82-22496
- ARO, Inc., Arnold AFS, TN.**
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Astro Research Corp., Carpinteria, CA.**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Astro-Space Labs., Inc., Huntsville, AL.**
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Athens Coil, AL.**
Apparatus and method for heating a material in a transparent ampoule
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Atlantic Research Corp., Alexandria, VA.**
Spherically-shaped rocket motor Patent
[NASA-CASE-XHC-01897] c 28 N70-35381
- Auburn Research Foundation, Inc., AL.**
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

- Auburn Univ., AL.**
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
- Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- Autonetics, Anaheim, CA.**
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
- Avco Corp., Cincinnati, OH.**
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Avco Corp., New York, NY.**
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Avco Corp., Wilmington, MA.**
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

B

- Baldwin Electronics, Inc., Little Rock, AR.**
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Baldwin-Lime-Hamilton Corp., San Francisco, CA.**
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Bell Bros. Research Corp., Boulder, CO.**
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
- Star scanner
[NASA-CASE-GSC-11569-1] c 89 N74-30886
- Barnes Engineering Co., Stamford, CT.**
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
- Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- Battelle Columbus Labs., OH.**
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- Battelle Memorial Inst., Columbus, OH.**
Process for preparation of diaminosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Porous electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Method of making porous conductive supports for electrodes
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Battelle Memorial Inst., Richland, WA.**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Battelle Northwest Labs., Richland, WA.**
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- Bausch and Lomb, Inc., Rochester, NY.**
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- Baylor Univ., Houston, TX.**
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103

Beckman Instruments, Inc., Anaheim, CA.
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

Beckman Instruments, Inc., Fullerton, CA.
Pulse activated polarographic hydrogen detector
Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Electronic divider and multiplier using photocells
Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same
Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Specific wavelength colorimeter
[NASA-CASE-MSC-14081-1] c 35 N74-27860

Beckman Instruments, Inc., Pasadena, CA.
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

Becton, Dickinson and Co., Rutherford, NJ.
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395

Beech Aircraft Corp., Boulder, CO.
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

Bell Aerospace Co., Buffalo, NY.
Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Correlation type phase detector
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Bell Aerosystems Co., Buffalo, NY.
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595

Bell and Howell Co., Chicago, IL.
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Bellcomm, Inc., Washington, DC.
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706

Bendix Corp., Ann Arbor, MI.
Circuit breaker utilizing magnetic latching relays
Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

Bendix Corp., Columbia, MD.
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

Bendix Corp., Davenport, IA.
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459

Bendix Corp., Detroit, MI.
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611

Bendix Corp., Huntsville, AL.
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421

Bendix Corp., Kennedy Space Center, FL.
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

Bendix Corp., Teterboro, NJ.
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483

Bendix Research Labs., Southfield, MI.
Image tube
[NASA-CASE-GSC-11602-1] c 33 N74-21850

Bionetics Corp., Hampton, VA.
Small conductive particle sensor
[NASA-CASE-LAR-12552-1] c 35 N82-11431

Boeing Aerospace Co., Houston, TX.
Fluid sample collection and distribution system
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

Boeing Aerospace Co., Seattle, WA.
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Boeing Co., Cocoa Beach, FL.
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

Variable resistance constant tension and lubrication device
[NASA-CASE-KSC-10723-1] c 37 N75-13265

Boeing Co., Houston, TX.
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

Boeing Co., Huntsville, AL.
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

Boeing Co., Pasadena, TX.
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Boeing Co., Seattle, WA.
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

Boeing Commercial Airplane Co., Seattle, WA.
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

Borden, Inc., New York, NY.
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Borg-Warner Corp., Chicago, IL.
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Brown and Root-Northrop, Houston, TX.
Anti-fog composition
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Brown Engineering Co., Inc., Huntsville, AL.
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Collapsible nozzle extension for rocket engines
Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems
Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

California Computer Products, Inc., Anaheim, CA.
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

California Inst. of Tech., Pasadena, CA.
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Electronic system for high power load control
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Radiative cooler
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

California Univ., Berkeley, CA.
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

California Univ., Los Angeles, CA.
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416

Catholic Univ. of America, Washington, DC.
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

Chance Vought Corp., Dallas, TX.
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Christopher Newport Coll., Newport News, VA.
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Chrysler Corp., Detroit, MI.
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Constant temperature heat sink for calorimeters
Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Chrysler Corp., Huntsville, AL.
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Collins Radio Co., Cedar Rapids, IA.
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Collins Radio Co., Dallas, TX.
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Colorado State Univ., Fort Collins, CO.
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Comprehensive Designers, Inc., Sherman Oaks, CA.
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Computer Control Co., Inc., Framingham, MA.
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Computer Sciences Corp., Falls Church, VA.
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
Computer Sciences Corp., Greenbelt, MD.
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Computer Sciences Corp., Mountain View, CA.
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Conrac Corp., Pasadena, CA.
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Consolidated Controls Corp., El Segundo, CA.
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Cornell Univ., Ithaca, NY.
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Crane Co., Burbank, CA.
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Curtiss-Wright Corp., Wood-Ridge, NJ.
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Cutler-Hammer, Inc., Melville, NY.
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

D

Delaware Univ., Newark, DE.
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Denver Univ., Denver, CO.
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
Department of Transportation, Cambridge, MA.
Optical noise suppression device and method
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Dome and Margolin, Inc., Bohemia, NY.
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Douglas Aircraft Co., Inc., Santa Monica, CA.
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Duke Univ., Durham, NC.
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Dumont Electron Tubes, Clifton, NJ.
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Dynatherm Corp., Cockeysville, MD.
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

E

Echo Science Corp., Mountain View, CA.
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Eitel-McCullough, Inc., San Carlos, CA.
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Electrac, Inc., Anaheim, CA.
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Electric Storage Battery Co., Raleigh, NC.
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Electric Storage Battery Co., Yardley, PA.
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Electro-Optical Systems, Inc., Pasadena, CA.
Focusing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Electronic Image Systems Corp., Cambridge, MA.
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Eloret Corp., Palo Alto, CA.
Composite flexible blanket insulation
[NASA-CASE-ARC-11907-1-NP] c 24 N91-31236
Essex Corp., Huntsville, AL.
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Ewen Knight Corp., East Natick, MA.
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

F

Fairchild Hiller Corp., Germantown, MD.
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Fairchild Republic Co., Farmingdale, NY.
Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Faraday Labs, Inc., La Jolla, CA.
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Federal-Mogul Corp., Los Alamitos, CA.
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Florida Univ., Gainesville, FL.
Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527
FMC Corp., New York, NY.
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Foothill Coll., Los Altos Hills, CA.
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Ford Motor Co., Dearborn, MI.
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

G

Garrett Corp., Los Angeles, CA.
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
Garrett Corp., Torrance, CA.
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
GCA Corp., Bedford, MA.
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
General Dynamics/Astronautics, San Diego, CA.
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
General Dynamics/Convair, San Diego, CA.
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
General Dynamics Corp., San Diego, CA.
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
General Electric Co., Cincinnati, OH.
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

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Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

General Electric Co., Cleveland, OH.
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

General Electric Co., Philadelphia, PA.
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

Didymium hydrate additive to nickel hydroxide electrodes
[NASA-CASE-XGS-03505] c 03 N71-10608

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

Automatic bioassay sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

General Electric Co., Plessanton, CA.
Method of making a cement Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

General Electric Co., Schenectady, NY.
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969

Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

General Electric Co., Utica, NY.
Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21931-1] c 37 N75-26372

General Motors Corp., Detroit, MI.
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

General Motors Corp., Milwaukee, WI.
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918

General Motors Corp., Santa Barbara, CA.
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

General Precision, Inc., Little Falls, NJ.
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

General Precision, Inc., Sunnyvale, CA.
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

General Precision Systems, Inc., Little Falls, NJ.
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603

General Research Corp., Santa Barbara, CA.
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

General Technologies Corp., Reston, VA.
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Geophysics Corp. of America, Bedford, MA.
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Geophysics Corp. of America, Boston, MA.
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

George Washington Univ., Washington, DC.
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Gianini Scientific Corp., Santa Ana, CA.
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c 37 N75-29426

Giner, Inc., Waltham, MA.
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Globe-Union, Inc., Milwaukee, WI.
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Goodyear Aerospace Corp., Akron, OH.
Foldable solar concentrator Patent
[NASA-CASE-XLA-04822] c 03 N70-41580

Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

Grace (W. R.) and Co., Clarksville, MD.
Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

Grumman Aerospace Corp., Bethpage, NY.
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593

Grumman Aircraft Engineering Corp., Bethpage, NY.
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Gulf General Atomic, San Diego, CA.
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

Gulton Industries, Inc., Albuquerque, NM.
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163

Hamilton Standard, Windsor Locks, CT.
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

Slow opening valve
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Hamilton Standard Div., United Aircraft Corp., Windsor Locks, CT.
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

Harris Corp., Melbourne, FL.
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

Telescoping columns
[NASA-CASE-LAR-12195-1] c 31 N81-27324

Hayes International Corp., Birmingham, AL.
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

Hayes International Corp., Huntsville, AL.
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Hazleton Labs., Falls Church, VA.
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

HC Chem Research and Service, San Jose, CA.
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Hercules, Inc., Wilmington, DE.
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

Hoffman Electronics Corp., El Monte, CA.
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267

Honeywell, Inc., Hopkins, MN.
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Honeywell, Inc., Minneapolis, MN.
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249

Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Honeywell, Inc., Saint Petersburg, FL.
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Houston Univ., TX.
Analysis of volatile organic compounds
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Howard Univ., Washington, DC.
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Hughes Aircraft Co., Culver City, CA.
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Hughes Aircraft Co., Los Angeles, CA.
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Flexible, repairable, portable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Hughes Research Labs., Malibu, CA.
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

IIT Research Inst., Chicago, IL.

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
ILC Technology, Inc., Sunnyvale, CA.
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
Illinois Univ., Urbana, IL.
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
Image Information, Inc., Danbury, CT.
Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Inca Engineering Corp., San Gabriel, CA.
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Institute for Research, Inc., Houston, TX.
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

Institute of Research and Instrumentation, Houston, TX.
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
International Business Machines Corp., Hopewell Junction, NY.
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
International Business Machines Corp., New York, NY.
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
International Business Machines Corp., Poughkeepsie, NY.
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
International Harvester Co., San Diego, CA.
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
International Laser Systems, Inc., Orlando, FL.
Active lamp pulse driver circuit
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
International Latex Corp., Dover, DE.
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Isomet Corp., Palisades Park, NJ.
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
ITT Corp., Nutley, NJ.
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

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James and Associates, Lancaster, CA.

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Jet Propulsion Lab., California Inst. of Tech., Pasadena, CA.
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Electromechanical actuator
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Refrigeration apparatus
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Excitation and detection circuitry for a flux responsive magnetic head
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Belleville spring assembly with elastic guides
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Temperature sensitive capacitor device
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Thermionic tantalum emitter doped with oxygen Patent
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Data handling system based on source significance, storage availability and data received from the source Patent Application
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Electro-optical scanning apparatus Patent Application
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Liquid junction and method of fabricating the same Patent Application
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Helium refining by superfluidity Patent
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Means and methods of depositing thin films on substrates Patent
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Photosensitive device to detect bearing deviation Patent
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Antenna beam-shaping apparatus Patent
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Temperature-compensating means for cavity resonator of amplifier Patent
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Parabolic reflector horn feed with spillover correction Patent
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Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
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Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395

Binary to binary-coded-decimal converter Patent
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Cassegrainian antenna subreflector flange for suppressing ground noise Patent
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Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
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Mechanical coordinate converter Patent
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High pressure four-way valve Patent
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Liquid rocket system Patent
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Radar ranging receiver Patent
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Attitude control for spacecraft Patent
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Elastic universal joint Patent
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Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181

Expulsion bladder-equipped storage tank structure Patent
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High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201

Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225

Ignition system for monopropellant combustion devices Patent
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Pressure regulating system Patent
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[NASA-CASE-XNP-00476] c 15 N70-38620

Steerable solid propellant rocket motor Patent
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Space simulator Patent
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Ejection unit Patent
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Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998

Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275

Parallel motion suspension device Patent
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Ignition means for monopropellant Patent
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Reinforcing means for diaphragms Patent
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High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

Digital television camera control system Patent
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Roll attitude star sensor system Patent
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Process for preparing sterile solid propellants Patent
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Solenoid construction Patent
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Closed loop ranging system Patent
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Printed circuit board with bellows rivet connection Patent
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Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Baseline stabilization system for ionization detector Patent
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Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

High pressure regulator valve Patent
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Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056

Reflectometer for receiver input impedance match measurement Patent
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Means for generating a sync signal in an FM communication system Patent
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Multi-feed cone Cassegrain antenna Patent
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Thermionic diode switch Patent
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Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260

Binary number sorter Patent
[NASA-CASE-XNP-01012] c 08 N71-12502

Linear three-tap feedback shift register Patent
[NASA-CASE-XNP-10351] c 08 N71-12503

Binary sequence detector Patent
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Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Magnetic counter Patent
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Operational integrator Patent
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Starting circuit for vapor lamps and the like Patent
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Matched thermistors for microwave power meters Patent
[NASA-CASE-XNP-10348] c 10 N71-12554

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

Automatic thermal switch Patent
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Photoelectric energy spectrometer Patent
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Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-XNP-10337] c 14 N71-15604

Fluid flow restrictor Patent
[NASA-CASE-XNP-10117] c 15 N71-15608

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

Flexible composite membrane Patent
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Mount for thermal control system Patent
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Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

Interferometer direction sensor Patent
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Interferometer servo system Patent
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Electrical spot terminal assembly Patent
[NASA-CASE-XNP-10034] c 15 N71-17685

Sealed separable connection Patent
[NASA-CASE-XNP-10064] c 15 N71-17693

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-XNP-10144] c 14 N71-17701

Apparatus and method for protecting a photographic device Patent
[NASA-CASE-XNP-10174] c 14 N71-18465

Ranging system Patent
[NASA-CASE-XNP-10066] c 09 N71-18598

High impact pressure regulator Patent
[NASA-CASE-XNP-10175] c 14 N71-18625

Magnetic core current steering commutator Patent
[NASA-CASE-XNP-10201] c 08 N71-18694

Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-XNP-10373] c 03 N71-18698

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Automatic fault correction system for parallel signal channels Patent
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Data compression processor Patent
[NASA-CASE-XNP-10068] c 08 N71-19288

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Solar cell matrix Patent
[NASA-CASE-XNP-10821] c 03 N71-19545

Electrical switching device Patent
[NASA-CASE-XNP-10037] c 09 N71-19610

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

Roll-up solar array Patent
[NASA-CASE-XNP-10188] c 03 N71-20273

Method and device for determining battery state of charge Patent
[NASA-CASE-XNP-10194] c 03 N71-20407

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Processing for producing a sterilized instrument Patent
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Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
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Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851

Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

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- Solar energy collection system
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- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
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- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
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- Ion mass spectrometer
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[NASA-CASE-NPO-18662-1-CU] c 74 N93-28428

A satellite-tracking millimeter-wave reflector antenna system for mobile satellite-tracking
[NASA-CASE-NPO-18772-1-CU] c 32 N93-28955

Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N93-29086

Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N93-29087

Three-parameter tunable Tilt-Integral-Derivative (TID) controller
[NASA-CASE-NPO-18492-1-CU] c 63 N93-29176

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N93-29608

Wavelength-division multiplexed optical integrated circuit with vertical diffraction grating
[NASA-CASE-NPO-18357-1-CU] c 74 N93-29848

Hidden Markov models for fault detection in dynamic systems
[NASA-CASE-NPO-18982-1-CU] c 38 N93-30413

Tunable CW diode-pumped Tm,Ho:YLF4 laser operating at or near room temperature
[NASA-CASE-NPO-18611-1-CU] c 36 N93-30415

Virtual reality flight control display with six-degree-of-freedom controller and spherical orientation overlay
[NASA-CASE-NPO-18733-1-CU] c 06 N93-30416

Force reflection with compliance control
[NASA-CASE-NPO-18668-1-CU] c 37 N94-10654

Method for producing a hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N94-10656

Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N94-10657

Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N94-10670

Carbon-carbon grid for ion engines
[NASA-CASE-NPO-19174-1-CU] c 20 N94-15876

Cyanoresin, cyanoresin/cellulose triacetate blends for thin film, dielectric capacitors
[NASA-CASE-NPO-18913-1-CU] c 27 N94-15930

Laser with optically driven Q-switch
[NASA-CASE-NPO-18470-1-CU] c 36 N94-15932

Display system employing acousto-optic tunable filter
[NASA-CASE-NPO-18736-1-CU] c 74 N94-15933

Cellulose triacetate, thin film dielectric capacitor
[NASA-CASE-NPO-18935-1-CU] c 33 N94-15952

Unipolar terminal-attractor based neural associative memory with adaptive threshold
[NASA-CASE-NPO-18790-1-CU] c 63 N94-15958

Selective formation of porous silicon
[NASA-CASE-NPO-18735-1-CU] c 27 N94-15960

Aberration correction of unstable resonators
[NASA-CASE-NPO-18791-1-CU] c 35 N94-15987

Leak detection utilizing analog binaural (VLSI) techniques
[NASA-CASE-NPO-18399-1-CU] c 33 N94-17323

Optically-switched submillimeter-wave oscillator and radiator
[NASA-CASE-NPO-18547-1-CU] c 33 N94-17324

Thin composite solid electrolyte film for lithium batteries
[NASA-CASE-NPO-18694-1-CU] c 33 N94-17325

Method and apparatus for spur-reduced digital sinusoid synthesis
[NASA-CASE-NPO-18789-1-CU] c 61 N94-17326

Buried porous silicon-germanium layers in monocrystalline silicon lattices and method of producing
[NASA-CASE-NPO-18836-1-CU] c 76 N94-17327

Non-blocking crossbar permutation engine with constant routing latency
[NASA-CASE-NPO-18864-1-CU] c 62 N94-17328

Electron reversal ionizer for detection of trace species using a spherical cathode
[NASA-CASE-NPO-18870-1-CU] c 72 N94-17329

A scalable wrap-around shuffle exchange network with deflection routing
[NASA-CASE-NPO-18983-1-CU] c 62 N94-17330

Wide angle, single screen, gridded square-loop frequency selective surface for duplexing two closely separated frequency bands
[NASA-CASE-NPO-18664-1-CU] c 89 N94-17438

Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N94-20303

Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N94-20305

Wide-angle imaging system with fiberoptic components providing angle-dependent virtual material stops
[NASA-CASE-NPO-18146-1-CU] c 74 N94-20345

Electronic neural network for solving traveling salesman and similar global optimization problems
[NASA-CASE-NPO-17807-2-CU] c 63 N94-20360

Segmented ion thruster
[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-2-CU] c 74 N94-23270

Non-volatile, solid state bistable electrical switch
[NASA-CASE-NPO-17621-1-CU] c 33 N94-23820

Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N94-23821

Overcharge and overdischarge protection of ambient temperature secondary lithium cells
[NASA-CASE-NPO-18343-1-CU] c 33 N94-23823

Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N94-23972

Method for forming thin composite solid electrolyte film for lithium batteries
[NASA-CASE-NPO-18877-1-CU] c 33 N94-29357

Plasma heating for containerless and microgravity materials processing
[NASA-CASE-NPO-18819-1-CU] c 29 N94-29371

Digital camera with apparatus for authentication of images produced from an image file
[NASA-CASE-NPO-19108-1-CU] c 35 N94-29373

Method of implementing digital phase-locked loops
[NASA-CASE-NPO-18757-1-CU] c 33 N94-29374

Dendrite preventing separator for secondary lithium batteries
[NASA-CASE-NPO-18585-1-CU] c 33 N94-29411

An emergency response mobile robot for operations in combustible atmospheres
[NASA-CASE-NPO-19020-1-CU] c 37 N94-29420

Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N94-29426

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N94-29465

Monolithic in-based III-V compound semiconductor focal plane array cell with single stage CCD output
[NASA-CASE-NPO-18978-1-CU] c 33 N94-29488

Catalytic ignitor for regenerative propellant gun
[NASA-CASE-NPO-18987-1-CU] c 28 N94-29490

Reconfigurable optical interconnections via dynamic computer-generated holograms
[NASA-CASE-NPO-19039-1-CU] c 74 N94-29491

A neural network with modular hierarchical learning
[NASA-CASE-NPO-19077-1-CU] c 63 N94-29492

Lasercom system architecture with reduced complexity
[NASA-CASE-NPO-19069-1-CU] c 36 N94-29493

Extended horizon lifting for periodic gain adjustment in control systems, and for equalization of communication channels
[NASA-CASE-NPO-19166-1-CU] c 32 N94-29495

An alternate method for achieving temperature control in the -160 to +90 C range
[NASA-CASE-NPO-18995-1-CU] c 35 N94-29497

Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N94-29501

Kinematic functions for redundancy resolution using configuration control
[NASA-CASE-NPO-18608-1-CU] c 63 N94-29504

Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505

Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 63 N94-29756

Correction-free pyrometry in radiant wall furnaces
[NASA-CASE-NPO-18655-1-CU] c 35 N94-35114

High temperature sorbents for oxygen
[NASA-CASE-NPO-18409-1-CU] c 25 N94-35255

Separation tool for multipin electrical connectors
[NASA-CASE-NPO-18786-1-CU] c 37 N94-35375

Adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N94-35384

Method and apparatus for removing unwanted reflections from an interferometer
[NASA-CASE-NPO-18478-1-CU] c 74 N94-35749

Johns Hopkins Univ., Laurel, MD.
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

Johns Hopkins Univ., Silver Spring, MD.
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375

K

Kansas Univ., Lawrence, KS.
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

Kelley-Hayes Co., Romulus, MI.
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802

Keltec Industries, Inc., Alexandria, VA.
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979

Kentucky Univ., Lexington, KY.
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

Kinologic Corp., Pasadena, CA.
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Kollsman Instrument Corp., Elmhurst, NY.
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

Kollsman Instrument Corp., Syosset, NY.
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393

Konigsberg Instruments, Inc., Pasadena, CA.
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347

Korad Corp., New York, NY.
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400

L

Life Systems, Inc., Beachwood, OH.
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

Ling-Temco-Vought, Inc., Dallas, TX.
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897

Little (Arthur D.), Inc., Cambridge, MA.
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c 27 N78-32262

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

Liton Industries, Beverly Hills, CA.
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096

Liton Industries, College Park, MD.
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

Liton Industries, San Carlos, CA.
Very high intensity light source using a cathode ray tube
[NASA-CASE-XNP-01296] c 33 N75-27250

Liton Systems, Inc., Minneapolis, MN.
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N78-27376

Lockheed Aircraft Corp., Burbank, CA.
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

Lockheed-California Co., Burbank, CA.

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

Multistage aerospace craft
[NASA-CASE-XMF-02263] c 05 N74-10907

Lockheed Electronics Co., Houston, TX.

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

Ultrafast calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888

Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654

Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479

Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-14641-1] c 33 N79-11313

Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Lockheed Engineering and Management Services Co., Inc., Las Cruces, NM.

Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

Lockheed Missiles and Space Co., Huntsville, AL.

Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

Lockheed Missiles and Space Co., Sunnyvale, CA.

Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466

Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641

Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

Solar energy powered heliostats
[NASA-CASE-GSC-10945-1] c 21 N72-31637

Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

Whole body measurement systems
[NASA-CASE-MSC-13972-1] c 52 N74-10975

Four phase logic systems
[NASA-CASE-MSC-14240-1] c 33 N75-14957

Strain arrestor plate for fused silica tile
[NASA-CASE-MSC-14182-1] c 27 N76-14264

Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

Lockheed Propulsion Co., Redlands, CA.

Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

LTV Aerospace Corp., Dallas, TX.

Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

LTV Aerospace Corp., Hampton, VA.

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

M**Macon-Rust Co., Lexington, KY.**

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

Martin-Rockwell Corp., Jamestown, NY.

Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

Marquardt Corp., Van Nuys, CA.

Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058

Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942

Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

Martin Marietta Aerospace, Denver, CO.

Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

Pulse transducer with artifact signal attenuator
[NASA-CASE-FRC-11012-1] c 52 N80-23969

Urine collection apparatus
[NASA-CASE-MSC-18381-1] c 52 N81-28740

Martin Marietta Corp., Baltimore, MD.

Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

Martin Marietta Corp., Denver, CO.

Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485

Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

Low distortion automatic phase control circuit
[NASA-CASE-MFS-21671-1] c 33 N74-22885

Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041

Filter regeneration systems
[NASA-CASE-MSC-14273-1] c 34 N75-33342

Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

Maryland Univ., College Park, MD.

Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722

Massachusetts Inst. of Tech., Cambridge.

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961

Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695

Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643

Transparent switchboard
[NASA-CASE-MSC-13748-1] c 10 N73-32143

Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192

Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

MB Associates, San Ramon, CA.

Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084

McDonnell Aircraft Co., Saint Louis, MO.

Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543

Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249

Apparatus for welding sheet material
[NASA-CASE-XMS-01330] c 37 N75-27376

Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

McDonnell-Douglas Astronautics Co., Huntington Beach, CA.

Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

McDonnell-Douglas Astronautics Co., Santa Monica, CA.

New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

McDonnell-Douglas Astronautics Co., Saint Louis, MO.

Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176

McDonnell-Douglas Corp., Huntington Beach, CA.

Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463

Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779

Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945

Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

Phase-locked servo system
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685

Device for use in loading tension members
[NASA-CASE-MFS-21488-1] c 14 N75-24794

McDonnell-Douglas Corp., Long Beach, CA.

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

McDonnell-Douglas Corp., Newport Beach, CA.

Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

McDonnell-Douglas Corp., Santa Monica, CA.

Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643

Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107

Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

McDonnell-Douglas Corp., Saint Louis, MO.

Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Medical Sciences Research Foundation, San Francisco, CA.

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

Mellon Inst., Pittsburgh, PA.

Instrument for measuring torsional creep and recovery
Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

Melpar, Inc., Falls Church, VA.

Television simulation for aircraft and space flight
Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086

Metcom, Inc., Salem, MA.

Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

Methodist Hospital, Houston, TX.

Snap-in compressible biomedical electrode
[NASA-CASE-MS-14623-1] c 52 N77-28717

Microwave Electronics Corp., Palo Alto, CA.

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049

Microwave Research Corp., North Andover, MA.

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

Midwest Research Inst., Kansas City, MO.

Preparation of ordered polyarylenesiloxane/polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

MILITEN (D. B.) Co., Arcadia, CA.

Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Minneapolis-Honeywell Regulator Co., MN.

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

Modern Machine and Tool Co., Newport News, VA.

Means for accommodating large overstrain in lead wires
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Monsanto Co., Saint Louis, MO.

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

Monsanto Research Corp., Dayton, OH.

Perfluoroalkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis(perfluoroalkyleneoxyphthalic anhydrides)
[NASA-CASE-MFS-22356-1] c 23 N75-30256

Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268

Motorola, Inc., Phoenix, AZ.

Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Method and apparatus for quadrupole-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

Motorola, Inc., Scottsdale, AZ.

Sealed cabinet Patent
[NASA-CASE-MS-12168-1] c 09 N71-18600

Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692

Phase modulator Patent
[NASA-CASE-MS-13201-1] c 07 N71-28429

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Quadrupole demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

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National Academy of Sciences - National Research Council, Washington, DC.

Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232

Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666

Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

Stagnation pressure probe
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732

Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654

Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331

Integrable power gyrator
[NASA-CASE-MFS-22342-1] c 33 N75-30428

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

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[NASA-CASE-ARC-10900-1] c 35 N77-24454

Length controlled stabilized mode-locked Nd:YAG laser
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Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187

Method and apparatus for splitting a beam of energy
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Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081

Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Autonomous navigation system
[NASA-CASE-ARC-11257-1] c 04 N81-21047

Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

National Aeronautics and Space Administration, Washington, DC.

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692

System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004

Display system
[NASA-CASE-ERC-10350] c 14 N73-20474

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

Doppler shift system
[NASA-CASE-HQN-10740-1] c 72 N74-19310

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706

Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
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Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699

System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c 17 N78-17140

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

Cooling system for removing metabolic heat from an hermetically sealed space suit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

Glass compositions with a high modulus of elasticity
[NASA-CASE-HQN-10274-1] c 27 N82-29451

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

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Non-toxic invert analog glass compositions of high modulus			
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High modulus rare earth and beryllium containing silicate glass compositions			
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High resistance and raised modulus carbon fibers			
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Work attachment mechanism/work attachment fixture			
[NASA-CASE-GSC-13430-1]	c 37	N83-14712	
National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.			
Nonmagnetic thermal motor for a magnetometer			
[NASA-CASE-XAR-03786]	c 09	N69-21313	
Balanced bellows spirometer			
[NASA-CASE-XAR-01547]	c 05	N69-21473	
Cryogenic apparatus for measuring the intensity of magnetic fields			
[NASA-CASE-XAC-02407]	c 14	N69-27423	
Variable stiffness polymeric damper			
[NASA-CASE-XAC-11225]	c 14	N69-27486	
Shock-layer radiation measurement			
[NASA-CASE-XAC-02970]	c 14	N69-39896	
Protective circuit of the spark gap type			
[NASA-CASE-XAC-08981]	c 09	N69-39897	
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent			
[NASA-CASE-XAC-00086]	c 09	N70-33182	
Two-plane balance Patent			
[NASA-CASE-XAC-00073]	c 14	N70-34813	
Centrifuge mounted motion simulator Patent			
[NASA-CASE-XAC-00399]	c 11	N70-34815	
Differential pressure cell Patent			
[NASA-CASE-XAC-00042]	c 14	N70-34816	
High-temperature, high-pressure spherical segment valve Patent			
[NASA-CASE-XAC-00074]	c 15	N70-34817	
Magnetically centered liquid column float Patent			
[NASA-CASE-XAC-00030]	c 14	N70-34820	
Propeller blade loading control Patent			
[NASA-CASE-XAC-00139]	c 02	N70-34856	
Temperature compensated solid state differential amplifier Patent			
[NASA-CASE-XAC-00435]	c 09	N70-35440	
High speed low level electrical stepping switch Patent			
[NASA-CASE-XAC-00060]	c 09	N70-39915	
Analog-to-digital conversion system Patent			
[NASA-CASE-XAC-00404]	c 08	N70-40125	
Null-type vacuum microbalance Patent			
[NASA-CASE-XAC-00472]	c 15	N70-40180	
Thermo-protective device for balances Patent			
[NASA-CASE-XAC-00648]	c 14	N70-40400	
Three-axis controller Patent			
[NASA-CASE-XAC-01404]	c 05	N70-41581	
Electric arc device for heating gases Patent			
[NASA-CASE-XAC-00319]	c 25	N70-41628	
Dynamic sensor Patent			
[NASA-CASE-XAC-02877]	c 14	N70-41681	
Universal pilot restraint suit and body support therefor Patent			
[NASA-CASE-XAC-00405]	c 05	N70-41819	
Proportional controller Patent			
[NASA-CASE-XAC-03392]	c 03	N70-41954	
Force transducer Patent			
[NASA-CASE-XAC-01101]	c 14	N70-41957	
Electrode construction Patent			
[NASA-CASE-ARC-10043-1]	c 05	N71-11193	
Telemeter adaptable for implanting in an animal Patent			
[NASA-CASE-XAC-05706]	c 05	N71-12342	
Gyrator type circuit Patent			
[NASA-CASE-XAC-10608-1]	c 09	N71-12517	
Ultraviolet resonance lamp Patent			
[NASA-CASE-ARC-10030]	c 09	N71-12521	
Differential temperature transducer Patent			
[NASA-CASE-XAC-00812]	c 14	N71-15598	
Multiple circuit switch apparatus with improved pivot actuator structure Patent			
[NASA-CASE-XAC-03777]	c 10	N71-15909	
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent			
[NASA-CASE-XAC-08494]	c 30	N71-15990	
High efficiency multivibrator Patent			
[NASA-CASE-XAC-00942]	c 10	N71-16042	
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent			
[NASA-CASE-XAC-05695]	c 25	N71-16073	
Flight craft Patent			
[NASA-CASE-XAC-02058]	c 02	N71-16087	
Three-axis finger tip controller for switches Patent			
[NASA-CASE-XAC-02405]	c 09	N71-16089	
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent			
[NASA-CASE-XAC-05506-1]	c 24	N71-16095	
Inertial reference apparatus Patent			
[NASA-CASE-XAC-03107]	c 23	N71-16098	
Fastener apparatus Patent			
[NASA-CASE-ARC-10140-1]	c 15	N71-17653	
Stabilization of gravity oriented satellites Patent			
[NASA-CASE-XAC-01591]	c 31	N71-17729	
Microwave flow detector Patent			
[NASA-CASE-ARC-10009-1]	c 15	N71-17822	
Hypervelocity gun Patent			
[NASA-CASE-XAC-05902]	c 11	N71-18578	
Nonlinear analog-to-digital converter Patent			
[NASA-CASE-XAC-04031]	c 08	N71-18594	
Demodulation system Patent			
[NASA-CASE-XAC-04030]	c 10	N71-19472	
Phase quadrature-plural channel data transmission system Patent			
[NASA-CASE-XAC-06302]	c 08	N71-19763	
Two force component measuring device Patent			
[NASA-CASE-XAC-04886-1]	c 14	N71-20439	
Altitude controls for VTOL aircraft Patent			
[NASA-CASE-XAC-08972]	c 02	N71-20570	
Electric arc apparatus Patent			
[NASA-CASE-XAC-01677]	c 09	N71-20816	
Inertia diaphragm pressure transducer Patent			
[NASA-CASE-XAC-02981]	c 14	N71-21072	
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[NASA-CASE-XAC-06956]	c 15	N71-21177	
Exposure system for animals Patent			
[NASA-CASE-XAC-05333]	c 11	N71-22875	
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent			
[NASA-CASE-XAC-02807]	c 09	N71-23021	
Hall current measuring apparatus having a series resistor for temperature compensation Patent			
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[NASA-CASE-XAC-01158]	c 15	N71-23051	
Hard space suit Patent			
[NASA-CASE-XAC-07043]	c 05	N71-23161	
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent			
[NASA-CASE-XAC-05422]	c 04	N71-23185	
Feedback integrator with grounded capacitor Patent			
[NASA-CASE-XAC-10607]	c 10	N71-23669	
Floating two force component measuring device Patent			
[NASA-CASE-XAC-04885]	c 14	N71-23790	
Control device Patent			
[NASA-CASE-XAC-10019]	c 15	N71-23809	
Means for suppressing or attenuating bending motion of elastic bodies Patent			
[NASA-CASE-XAC-05632]	c 32	N71-23971	
Device for measuring pressure Patent			
[NASA-CASE-XAC-04458]	c 14	N71-24232	
Transducer circuit and catheter transducer Patent			
[NASA-CASE-ARC-10132-1]	c 09	N71-24597	
Skeletal stressing method and apparatus Patent			
[NASA-CASE-ARC-10100-1]	c 05	N71-24738	
Modified polyurethane foams for fuel-fire Patent			
[NASA-CASE-ARC-10098-1]	c 06	N71-24739	
Deep space monitor communication satellite system Patent			
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Laser fluid velocity detector Patent			
[NASA-CASE-XAC-10770-1]	c 16	N71-24828	
Transient video signal recording with expanded playback Patent			
[NASA-CASE-ARC-10003-1]	c 09	N71-25866	
Thermally cycled magnetometer Patent			
[NASA-CASE-XAC-03740]	c 14	N71-26135	
Optical machine tool alignment indicator Patent			
[NASA-CASE-XAC-09489-1]	c 15	N71-26673	
Energy limiter for hydraulic actuators Patent			
[NASA-CASE-ARC-10131-1]	c 15	N71-27754	
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent			
[NASA-CASE-ARC-10137-1]	c 09	N71-28468	
Locomotion and restraint aid Patent			
[NASA-CASE-ARC-10153]	c 05	N71-28619	
Line following servosystem Patent			
[NASA-CASE-XAC-00001]	c 15	N71-28952	
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent			
[NASA-CASE-XAC-00048]	c 02	N71-29128	
Precision rectifier with FET switching means Patent			
[NASA-CASE-ARC-10101-1]	c 09	N71-33109	
Solar cell Patent			
[NASA-CASE-ARC-10050]	c 03	N71-33409	
Phase shift circuit apparatus			
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High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level			
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Method and apparatus for measuring the damping characteristics of a structure			
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[NASA-CASE-ARC-11547-1] c 36 N87-17026
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[NASA-CASE-ARC-11631-1] c 34 N87-21255
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[NASA-CASE-ARC-11533-1] c 27 N87-23751
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[NASA-CASE-ARC-11634-1] c 36 N88-14350
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[NASA-CASE-ARC-11536-1] c 33 N89-14384
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[NASA-CASE-ARC-11426-2] c 52 N89-16256
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[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

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[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160

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[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713

Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N94-20371

Probe shapes that measure time-averaged streamwise momentum and cross-stream turbulence intensity
[NASA-CASE-ARC-11934-1] c 34 N94-23077

Probe systems for measuring static pressure and turbulence intensity in fluid streams
[NASA-CASE-ARC-11935-1] c 34 N94-23306

Output optics for laser velocimeters
[NASA-CASE-ARC-11889-1-SB] c 74 N94-23309

Deployable video conference table
[NASA-CASE-ARC-11950-1] c 09 N94-23310

Ceramic silicon-boron-carbon fibers from organic silicon-boron-polymers
[NASA-CASE-ARC-11956-1-SB] c 27 N94-23311

Head related transfer function pseudo-stereophony
[NASA-CASE-ARC-11919-1-NP] c 71 N94-23312

System for improving measurement accuracy of transducer by measuring transducer temperature and resistance change using thermoelectric voltages
[NASA-CASE-ARC-12014-1] c 35 N94-29361

Boundary layer control device for duct silencers
[NASA-CASE-ARC-12030-1] c 71 N94-29362

Improved in-flow acoustic sensor
[NASA-CASE-ARC-12001-1] c 71 N94-29363

Multi-channel spatialization systems for audio signals
[NASA-CASE-ARC-12013-1-CU] c 32 N94-29364

Image-adapted visually weighted quantization matrices for digital image compression
[NASA-CASE-ARC-12015-1] c 60 N94-29375

Composite flexible blanket insulation
[NASA-CASE-ARC-11955-1-CU] c 24 N94-29509

National Aeronautics and Space Administration.
Electronics Research Center, Cambridge, MA.

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

A method for the deposition of beta-silicon carbide by isoelectronic
[NASA-CASE-ERC-10120] c 26 N69-33482

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354

Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722

Parametric microwave noise generator Patent
[NASA-CASE-XER-10119] c 09 N71-23598

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896

Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065

Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246

National Aeronautics and Space Administration. Flight Research Center, Edwards, CA.

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421

Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129

Terminal guidance system
[NASA-CASE-FRC-10049-1] c 04 N74-13420

Full wave modulator-demodulator amplifier apparatus
[NASA-CASE-FRC-10072-1] c 33 N74-14939

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

National Aeronautics and Space Administration.
Goddard Inst. for Space Studies, New York, NY.

Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455

Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11889-1] c 74 N77-28932

Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413

Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456

Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731

Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

National Aeronautics and Space Administration.
Goddard Space Flight Center, Greenbelt, MD.

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

CORPORATE SOURCE

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Serrordyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Stepping motor control circuit Patent
[NASA-CASE-GSC-10368-1] c 10 N71-18772
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

NASA. Goddard Space Flight Center

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Sideral frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Apparatus for phase stability determination Patent
[NASA-CASE-XGS-01118] c 10 N71-23662
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283

Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477

Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381

Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491

Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673

SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171

Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581

Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

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National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.		
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- Meteoroid capture cell construction
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- Flanged major modular assembly jig
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- Optical noise suppression device and method
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- Optical process for producing classification maps from multispectral data
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- Window defect planar mapping technique
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[NASA-CASE-MSC-14653-1] c 35 N77-19385
- Mechanical sequencer
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- Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
- Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
- Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
- Surface finishing
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
- Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
- Microbalance
[NASA-CASE-MSC-11242] c 35 N78-17358
- Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
- Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
- Helmet latching and attaching ring
[NASA-CASE-MSC-04670] c 54 N78-17678
- Protective garment ventilation system
[NASA-CASE-MSC-04928] c 54 N78-17679
- Helmet feedport
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- Optical conversion method
[NASA-CASE-MSC-12618-1] c 74 N78-17865
- Emergency space-suit helmet
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- Method of producing complex aluminum alloy parts of high temper, and products thereof
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- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
- Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Thermal insulation attaching means
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- Lightweight electrically-powered flexible thermal laminate
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- Water separator
[NASA-CASE-MSC-01295-1] c 37 N79-21345
- Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
- Fluid sample collection and distribution system
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
- Fused switch
[NASA-CASE-MSC-01244-1] c 33 N79-33393
- Chassis unit insert tightening-extract device
[NASA-CASE-MSC-01077-1] c 37 N79-33467
- Compound oxidized styrylphosphine
[NASA-CASE-MSC-14903-2] c 27 N80-10358
- Portable breathing system
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
- Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Vitro-violet process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Thermal barrier pressure seal
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- Urine collection apparatus
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
- Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
- Reusable captive blind fastener
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- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- Thermal garment
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- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- Absorbent product to absorb fluids
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Attachment system for silica tiles
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Optical crystal temperature gauge with fiber optic connections
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- Random digital encryption secure communication system
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- Gas-to-hydraulic power converter
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- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Bio-medical flow sensor
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
- Degassing and mixing apparatus for liquids
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
- Pre-stressed thermal protection systems
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- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
- Heat resistant protective hand covering
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- Method and apparatus for receiving and tracking phase modulated signals
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[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Light transmitting window assembly
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- Slide release mechanism
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- Liquid crystal light valve structures
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- Reactant pressure differential control for fuel cell gases
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- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- Spillage detector for liquid chromatography systems
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- Multi-leg heat pipe evaporator
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- Foldable self-erecting joint
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- Real-time garbage collection for list processing
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- Self-contained, single-use hose and tubing cleaning module
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- Method and apparatus for measuring frequency and phase difference
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- Method and apparatus for telemetry adaptive bandwidth compression
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- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
- Four-terminal electrical testing device
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- Preloadable vector sensitive latch
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- Monogroove cold plate
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- Tapered, tubular polyester fabric
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- Acoustic emission frequency discrimination
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- Magnetic drive coupling
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- Payload deployment method and system
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- Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
- Linear force device
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- Electrostatic discharge test apparatus
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- Range and range rate system
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- Mobile remote manipulator system for a tetrahedral truss
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- Method and apparatus for measuring distance
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- Expandable pallet for space station interface attachments
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- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- Collet lock joint for space station truss
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- Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
- ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
- Switched steerable multiple beam antenna system
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- Space station erectable manipulator placement system
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- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
- Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554
- Method of controlling a resin curing process
[NASA-CASE-MSC-21169-1] c 27 N89-29539
- Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
- Hatch cover
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- Docking mechanism for spacecraft
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- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
- Doppler radar with multiphase modulation of transmitted and reflected signal
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- Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- Pressurized bellows flat contact heat exchanger interface
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[NASA-CASE-MSC-20782-1] c 27 N90-23566
- Hazards protection for space suits and spacecraft
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- Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
- General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
- Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- Smart tunnel Docking mechanism
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- Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
- Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
- Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
- Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
- High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
- Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
- Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
- Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305
- Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
- Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- Variable orifice flow regulator
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- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
- Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514
- Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
- Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- Mechanized fluid connector and assembly tool system with ball detents
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CORPORATE SOURCE

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Anti-multipath digital signal detector
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[NASA-CASE-LAR-14402-2-CU] c 71 N93-24602

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[NASA-CASE-LAR-13645-1] c 27 N93-25995

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Polyimides with improved compression moldability
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Helicopter low-speed yaw control
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Polyimides containing the cyclobutene-3,4-dione moiety
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Method of measuring cross-flow vortices by use of an array of hot-film sensors
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Methods of determining loads and fiber orientations in anisotropic non-crystalline materials using energy flux deviation
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Method of encouraging attention by correlating video game difficulty with attention level
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1,3-diamino-5-pentafluorosulfanylbeneze
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Shear sensitive monomer-polymer laminate structure and method of using same
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A quality monitor and monitoring technique employing optically stimulated electron emission
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Underwing compression vortex attenuation device
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Method and apparatus for non-destructive evaluation of composite materials with cloth surface impressions
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Shock-free supersonic elliptic nozzles and method of forming same
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Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N94-20365

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[NASA-CASE-LAR-14418-15-B] c 32 N94-20368

Counter-balanced, multiple cable construction crane
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A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N94-20373

Polyimides containing amide and perfluoroisopropylidene connecting groups
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Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-2] c 34 N94-20495

Polybenzoxazole via aromatic nucleophilic displacement
[NASA-CASE-LAR-14606-1-CU] c 23 N94-20540

Apparatus and method for improving spin recovery on aircraft
[NASA-CASE-LAR-14747-1] c 08 N94-20556

Optical fiber sensor having an active core
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Apparatus for providing a uniform, consolidated, unidirectional, continuous, fiber-reinforced polymeric material and method relating thereto
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Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N94-35075

Phenylethynyl endcapping reagents and reactive diluents
[NASA-CASE-LAR-14796-1] c 25 N94-35077

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[NASA-CASE-LAR-15606-1] c 44 N94-35230

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Absolute calibration technique for broadband ultrasonic transducers
[NASA-CASE-LAR-14672-1] c 35 N94-35368

Method for making a dynamic pressure sensor and a pressure sensor made according to the method
[NASA-CASE-LAR-14029-1] c 35 N94-35369

Tough high performance composite matrix
[NASA-CASE-LAR-14239-2] c 24 N94-35372

Forward sweep, low noise rotor blade
[NASA-CASE-LAR-14569-1] c 05 N94-36767

Electrically conductive, thermally insulating cryogenic current leads
[NASA-CASE-LAR-14964-1-CU] c 33 N94-36781

Internally damped, self-arresting vertical drop-weight apparatus
[NASA-CASE-LAR-15003-1] c 09 N94-36826

National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542

Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278

High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284

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[NASA-CASE-XLE-02428] c 17 N70-33288

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330

Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356

External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372

Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375

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[NASA-CASE-XLE-00101] c 15 N70-33376

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[NASA-CASE-XLE-00010] c 15 N70-33382

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[NASA-CASE-XLE-00208] c 28 N70-34294

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[NASA-CASE-XLE-00490] c 33 N70-34545

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812

Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Ion thruster cathode Patent Application
[NASA-CASE-XLE-10814-1] c 28 N70-35422
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Variable sweep aircraft wing Patent
[NASA-CASE-XLE-00350] c 02 N70-38011
- Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
- Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
- High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Capacitor and method of making same Patent
[NASA-CASE-XLE-10364-1] c 09 N71-13522
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
- Split welding chamber Patent
[NASA-CASE-XLE-11531] c 15 N71-14932
- Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
- Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
- Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
- Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Pneumatic oscillator Patent
[NASA-CASE-XLE-10345-1] c 10 N71-25899
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-XLE-11358] c 03 N71-26084
- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Ion beam deflector Patent
[NASA-CASE-XLE-10689-1] c 28 N71-26173
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- Ion thruster accelerator system Patent
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- Electrically rechargeable REDOX flow cell
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- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
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[NASA-CASE-LEW-11881-1] c 33 N77-17354
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- Solar cell assembly
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Gels as battery separators for soluble electrode cells
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- Nickel base alloy
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- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
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- Directionally solidified eutectic gamma-gamma nickel-base superalloys
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- Counter pumping debris excluder and separator
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[NASA-CASE-LEW-12791-1] c 33 N78-32341
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[NASA-CASE-LEW-12496-1] c 07 N78-33101
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[NASA-CASE-LEW-12013-1] c 33 N79-10339
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[NASA-CASE-LEW-12793-1] c 37 N79-11403
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[NASA-CASE-LEW-13050-1] c 07 N79-14095
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17182
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- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-1] c 37 N79-18318
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[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Closed Loop solar array-ion thruster system with power control circuitry
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- Closed loop spray cooling apparatus
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- Hypervelocity gun
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[NASA-CASE-LEW-12542-2] c 26 N79-22271
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- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
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- Composite seal for turbomachinery
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- Circumferential shaft seal
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[NASA-CASE-LEW-12274-1] c 37 N80-31790
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Hydrogen hollow cathode ion source
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- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
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[NASA-CASE-LEW-12594-2] c 07 N81-19116
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- Method of cold welding using ion beam technology
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National Aeronautics and Space Administration.
National Space Technology Labs., Bay Saint Louis, MS.

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National Aeronautics and Space Administration.
Pasadena Office, CA.

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Frequency discriminator and phase detector circuit

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Photoelectron spectrometer with means for stabilizing sample surface potential

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Controlling under-actuated robot arms using a high speed dynamics process

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Synchronous parallel system for emulation and discrete event simulation

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VLSI architecture for a Reed-Solomon decoder

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Hazardous materials emergency response mobile robot

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INAS hole-immobilized doping superlattice

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The adaptive neuron model: An architecture for the rapid learning of nonlinear topological transformations

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Terminal slider control of nonlinear robotic systems

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Self-collimated unstable resonator semiconductor laser

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Neural-network dedicated processor for solving competitive assignment problems

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Digital parallel processor array for optimum path planning

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Parallel inferencing method and apparatus for rule-based expert systems

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Planar microstrip YAGI antenna array

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Special purpose parallel computer architecture for real-time control and simulation in robotic applications

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Wavelength-division multiplexed optical integrated circuit with vertical diffraction grating

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Hidden Markov models for fault detection in dynamic systems

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Virtual reality flight control display with six-degree-of-freedom controller and spherical orientation overlay

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Force reflection with compliance control

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Aberration correction of unstable resonators

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Buried porous silicon-germanium layers in monocrystalline silicon lattices and method of producing

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Non-blocking crossbar permutation engine with constant routing latency

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Electron reversal ionizer for detection of trace species using a spherical cathode

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A scalable wrap-around shuffle exchange network with deflection routing

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Wide angle, single screen, gridded square-loop frequency selective surface for duplexing two closely separated frequency bands

[NASA-CASE-NPO-18664-1-CU] c 89 N94-17438

Optoelectronic associative memory

[NASA-CASE-NPO-18278-1-CU] c 74 N94-20303

Feedback controlled optics with wavefront compensation

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Wide-angle imaging system with fiberoptic components providing angle-dependent virtual material stops

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Electronic neural network for solving traveling salesman and similar global optimization problems

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Segmented ion thruster

[NASA-CASE-NPO-18192-1-CU] c 20 N94-20496

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media

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Non-volatile, solid state bistable electrical switch

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Planar varactor frequency multiplier devices with blocking barrier

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Overcharge and overdischarge protection of ambient temperature secondary lithium cells

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Method of forming silicon structures with selectable optical characteristics

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Method for forming thin composite solid electrolyte film for lithium batteries

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Plasma heating for containerless and microgravity materials processing
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Digital camera with apparatus for authentication of images produced from an image file
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Method of implementing digital phase-locked loops
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Dendrite preventing separator for secondary lithium batteries
[NASA-CASE-NPO-18585-1-CU] c 33 N94-29411

An emergency response mobile robot for operations in combustible atmospheres
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Nonvolatile programmable neural network synaptic array
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High level language-based robotic control system
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Monolithic in-based III-V compound semiconductor focal plane array cell with single stage CCD output
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Catalytic ignitor for regenerative propellant gun
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Reconfigurable optical interconnections via dynamic computer-generated holograms
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A neural network with modular hierarchical learning
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Lasercom system architecture with reduced complexity
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Extended horizon lifting for periodic gain adjustment in control systems, and for equalization of communication channels
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An alternate method for achieving temperature control in the -160 to +90 C range
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Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
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Kinematic functions for redundancy resolution using configuration control
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Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N94-29505

Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 63 N94-29756

Correction-free pyrometry in radiant wall furnaces
[NASA-CASE-NPO-18655-1-CU] c 35 N94-35114

High temperature sorbents for oxygen
[NASA-CASE-NPO-18409-1-CU] c 25 N94-35255

Separation tool for multipin electrical connectors
[NASA-CASE-NPO-18786-1-CU] c 37 N94-35375

Adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N94-35384

Method and apparatus for removing unwanted reflections from an interferometer
[NASA-CASE-NPO-18478-1-CU] c 74 N94-35749

National Aeronautics and Space Administration,
Wallops Flight Center, Wallops Island, VA.

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Thin film strain transducer
[NASA-CASE-WLP-10055-2] c 35 N85-21598

National Aeronautics and Space Administration,
Western Operations Office, Santa Monica, CA.

Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042

National Bureau of Standards, Boulder, CO.

Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330

National Oceanic and Atmospheric Administration,
Boulder, CO.

Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175

National Research Corp., Cambridge, MA.

Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390

Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324

Rock sampling
[NASA-CASE-XNP-10007-1] c 46 N74-23068

Rock sampling
[NASA-CASE-XNP-09755] c 46 N74-23069

National Science Foundation, Washington, DC.

Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384

Nevada Univ. System, Reno, NV.

Constant-output atomizer
[NASA-CASE-MFS-25631-1] c 34 N84-12406

New England Medical Center Hospitals, Boston, MA.

Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

North American Aviation, Inc., Canoga Park, CA.

Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

North American Aviation, Inc., Downey, CA.

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485

Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441

Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

North American Aviation, Inc., El Segundo, CA.

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076

Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536

Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053

North American Aviation, Inc., Los Angeles, CA.

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

North American Aviation, Inc., Torrance, CA.

Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779

North American Aviation, Inc., Woodland Hills, CA.

Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469

North American Phillips Co., Inc., Briarcliff Manor, NY.

Linear magnetic bearings
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North American Rockwell Corp., Canoga Park, CA.

Noncontaminating swabs
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Observation window for a gas confining chamber
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Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478

Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243

Heat flow calorimeter
[NASA-CASE-GSC-11434-1] c 34 N74-27859

North American Rockwell Corp., Downey, CA.

Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434

Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488

Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489

Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956

Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

North American Rockwell Corp., El Segundo, CA.

Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325

North American Rockwell Corp., Los Angeles, CA.

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

North Carolina State Univ., Raleigh, NC.

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

Northeastern Univ., Boston, MA.

Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390

Northrop Corp., Hawthorne, CA.

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

Northrop Northronics, Palos Verdes Peninsula, CA.

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121

Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451

Northrop Space Labs., Hawthorne, CA.

Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

Nortronics, Palos Verdes Peninsula, CA.

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

Notre Dame Univ., IN.

Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

Aromatic diamine-aromatic dialdehyde high molecular weight schiff base polymers prepared in a monofunctional schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

Oakland Univ., Rochester, MI.

Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

Occidental Research Corp., La Verne, CA.

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Ohio State Univ., Columbus.

Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330

Q

- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- Old Dominion Univ., Norfolk, VA.**
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- Differential sound level meter
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- High-temperature microphone system
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- Oregon Univ., Portland, OR.**
Method for separating biological cells
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Organon Diagnostics, El Monte, CA.**
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

P

- Packard-Bell Electronics Corp., Newbury Park, CA.**
Optical alignment system Patent
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- Panaua Corp., Pennsauken, NJ.**
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- PCR, Inc., Gainesville, FL.**
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Peninsular ChemResearch, Inc., Gainesville, FL.**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Pennsylvania State Univ., University Park, PA.**
Process for the preparation of polycarbonylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carbonylcyclophosphazenes and their polymers
[NASA-CASE-11176-1] c 27 N82-18389
- Carbonylmethylene-substituted phosphazenes and polymers thereof
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- Philco-Ford Corp., Houston, TX.**
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
- Philco-Ford Corp., Newport Beach, CA.**
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Philco-Ford Corp., Palo Alto, CA.**
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Phoenix Corp., McLean, VA.**
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Pittsburgh Univ., Pittsburgh, PA.**
Method and device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Planning Research Corp., McLean, VA.**
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- Pratt and Whitney Aircraft, East Hartford, CT.**
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

R

- Quantum Dynamics Co., Inc., Tarzana, CA.**
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
- Radiation, Inc., Melbourne, FL.**
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- Radiation Instrument Development Lab., Inc., Metrose Park, IL.**
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- Radiation Systems, Inc., McLean, VA.**
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
- Radio Corp. of America, Lancaster, PA.**
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Radio Corp. of America, New York, NY.**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Hetical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- Radio Corp. of America, Princeton, NJ.**
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
- Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14849-1] c 33 N76-16331
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
- RAND Corp., Santa Monica, CA.**
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Raymond Engineering Lab., Inc., Middletown, CT.**
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

- Raytheon Co., Sudbury, MA.**
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- RCA Labs., Princeton, NJ.**
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- RCA Service Co., Inc., Camden, NJ.**
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- Rensselaer Polytechnic Inst., Troy, NY.**
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Research Triangle Inst., Durham, NC.**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- Rochester General Hospital, NY.**
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Rochester Univ., NY.**
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
- Rockwell International Corp., Canoga Park, CA.**
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
- Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
- Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Brazing alloy composition
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- Brazing alloy
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- Method and apparatus for vibration analysis utilizing the Mossbauer effect
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- Method of heat treating age-hardenable alloys
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- Thrust measurement
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- Externally supported internally stabilized flexible duct joint
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- Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
- Accumulator
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- Laser extensometer
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- Stable superconducting magnet
[NASA-CASE-XMF-05373-1] c 33 N79-21264
- Rockwell International Corp., Downey, CA.**
Apparatus for positioning modular components on a vertical or overhead surface
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- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N78-32140
- Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482

Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499

Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383

Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333

Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

Thermal barrier pressure seal
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

Attachment system for silica tiles
[NASA-CASE-MSC-18741-1] c 27 N82-29456

Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520

Degassifying and mixing apparatus for liquids
[NASA-CASE-MSC-18938-1] c 35 N82-29652

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

Rockwell International Corp., Houston, TX.
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

Rockwell International Corp., Los Angeles, CA.
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398

Rockwell International Corp., Pittsburgh, PA.
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

Roph Corp., Chula Vista, CA.
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522

Royal Aircraft Establishment, Farnborough (England).
Garments for controlling the temperature of the body
[NASA-CASE-XMS-10269] c 05 N71-24147

Ryan Aeronautical Co., San Diego, CA.
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

S

San Jose State Univ., CA.
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338

Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

Sanders Associates, Inc., Nashua, NH.
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Sandia Labs., Albuquerque, NM.
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456

Santa Barbara Research Center, Goleta, CA.
Scanner
[NASA-CASE-GSC-12032-2] c 43 N82-13465

Santa Clara Univ., CA.
Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c 07 N75-24736

System for measuring Reynolds in a turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c 34 N76-27517

System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345

Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

Schjeldahl (G. T.) Co., Northfield, MN.
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Science Applications, Inc., La Jolla, CA.
Vitra-violet process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c 27 N80-26446

Scott Aviation Corp., Lancaster, NY.
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900

Serv-Air, Inc., Edwards, CA.
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

Serv-Air, Inc., Houston, TX.
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

Sheldahl Co., Northfield, MN.
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226

Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

Sikorsky Aircraft, Stratford, CT.
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Singer Co., Binghamton, NY.
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

Singer-General Precision, Inc., Binghamton, NY.
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

Smith (Stephen F.), Knoxville, TN.
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

Smith Electronics, Inc., Cleveland, OH.
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

Smithsonian Astrophysical Observatory, Cambridge, MA.
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489

Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313

Solid State Radiations, Inc., Los Angeles, CA.
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440

Southern Methodist Univ., Dallas, TX.
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609

Southern Research Inst., Birmingham, AL.
Infusible silazane polymer and process for producing same
[NASA-CASE-XMF-02526-1] c 27 N79-21190

Southwest Research Inst., San Antonio, TX.
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Thin film strain transducer
[NASA-CASE-WLP-10055-2] c 35 N85-21598

Space Sciences, Inc., Waltham, MA.
Doppler shift system
[NASA-CASE-HQN-10740-1] c 72 N74-19310

Space Technology Labs., Inc., Redondo Beach, CA.
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Linear accelerator frequency control system Patent
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Fluid lubricant system Patent
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Compensating bandwidth switching transients in an amplifier circuit Patent
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Spacelabs, Inc., Van Nuys, CA.
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

Speco, Inc., Huntsville, AL.
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Spectra-Physics, Inc., Mountain View, CA.
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

Spectrolab, Inc., Sylmar, CA.
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531

Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019

Sperry Gyroscope Co., Great Neck, NY.
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

Sperry Rand Corp., Blue Bell, PA.
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

Sperry Rand Corp., Huntsville, AL.
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191

Device for handling printed circuit cards Patent
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Frequency division multiplex technique
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Device for configuring multiple leads
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System for enhancing tool-exchange capabilities of a portable wrench
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Remotely operable articulated manipulator
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Photovoltaic cell array
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Notch filter
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FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Sperry Rand Corp., Phoenix, AZ.
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482

Stanford Research Inst., Menlo Park, CA.

- Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

Stanford Univ., CA.

- Active RC networks
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[NASA-CASE-ARC-11052-1] c 37 N79-28551
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- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

T

Taag Designs, Inc., College Park, MD.

- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- Phototropic composition of matter
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- Television noise reduction device
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- Modified face seal for positive film stiffness
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- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Segmenting lead telluride-silicon germanium thermoelements Patent
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- Electrocatalyst for oxygen reduction
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Ultrasystems, Inc., Irvine, CA.

- Heat resistant polymers of oxidized styrylphosphine
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Youngstown State Univ.

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United Aircraft Corp., Sunnyvale, CA.
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United Aircraft Corp., West Palm Beach, FL.
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United Aircraft Corp., Windsor Locks, CT.
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United Technologies Corp., South Windsor, CT.
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
United Technologies Corp., Windsor Locks, CT.
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
United Technology Center, Sunnyvale, CA.
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
University of Southern Mississippi, Hattiesburg, MS.
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

V

Vanderbilt Univ., Nashville, TN.
Solar driven liquid metal MHD power generator
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Vapor Corp., Chicago, IL.
Method and apparatus for controllably heating fluid
Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Varian Associates, Palo Alto, CA.
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
Virginia Associated Research Center, Newport News, VA.
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Virginia Polytechnic Inst. and State Univ., Blacksburg, VA.
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
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[NASA-CASE-LAR-12966-1] c 35 N85-30282

Virginia Univ., Charlottesville, VA.
Depositing semiconductor films utilizing a thermal gradient
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Active microwave irises and windows
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Vought Corp., Hampton, VA.
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

W

Weber Aircraft Corp., Burbank, CA.
Articulated multiple couch assembly Patent
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Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Westinghouse Electric Corp., Baltimore, MD.
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Westinghouse Electric Corp., Huntsville, AL.
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Westinghouse Electric Corp., Lima, OH.
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Westinghouse Electric Corp., Pittsburgh, PA.
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
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High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
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Frequency shift keying apparatus Patent
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[NASA-CASE-XNP-05382] c 10 N71-23544
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
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[NASA-CASE-XHQ-03673] c 33 N71-29046
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Sodium storage and injection system
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Weston Instruments, Inc., College Park, MD.
Electronically resettable fuse Patent
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Whitaker Corp., Saint Joseph, MI.
Relief container
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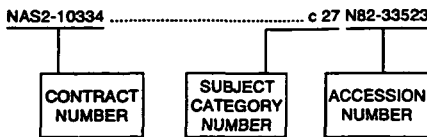
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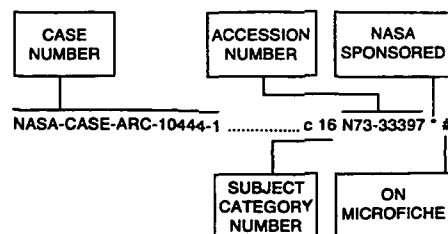
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INT-PATENT-CLASS-H01J-40/14	c 74	N92-33017 *	INT-PATENT-CLASS-H05H-3/04	c 29	N93-24600 *	NAS 1.71:LAR-14513-1-SB	c 32	N94-29360 *
INT-PATENT-CLASS-H01J-40/14	c 71	N93-24602 *	INT-PATENT-CLASS-H05K-5/00	c 32	N93-29087 *	NAS 1.71:LAR-14517-1	c 27	N94-15879 *
INT-PATENT-CLASS-H01J-51/16	c 74	N94-20345 *	INT-PATENT-CLASS-H05K-7/20	c 24	N93-29614 *	NAS 1.71:LAR-14526-1	c 27	N94-29359 *
INT-PATENT-CLASS-H01L-21/306	c 25	N91-31258 *	INT-PATENT-CLASS-H07M-10/39	c 33	N91-14536 *	NAS 1.71:LAR-14535-1	c 24	N94-15878 *
INT-PATENT-CLASS-H01L-21/324	c 76	N91-28014 *	INT-PATENT-CLASS-H07M-4/60	c 33	N91-14536 *	NAS 1.71:LAR-14538-1	c 27	N92-11201 *
INT-PATENT-CLASS-H01L-21/44	c 33	N94-10656 *				NAS 1.71:LAR-14547-1	c 34	N92-17909 *
INT-PATENT-CLASS-H01L-23/02	c 32	N93-29087 *	INT-PATENT-CLASS-N66L-1/66	c 37	N93-13417 *	NAS 1.71:LAR-14559-1	c 38	N92-29829 *
INT-PATENT-CLASS-H01L-27/02	c 74	N91-25841 *				NAS 1.71:LAR-14569-1	c 05	N94-36767 *
INT-PATENT-CLASS-H01L-27/12	c 76	N92-22041 *	NAS 1.15:76884	c 24	N85-25436 *	NAS 1.71:LAR-14581-1-SB	c 38	N93-12204 *
INT-PATENT-CLASS-H01L-27/12	c 35	N93-19387 *	NAS 1.71:ARC-11349-1	c 37	N86-20797 *	NAS 1.71:LAR-14591-1	c 35	N93-19493 *
INT-PATENT-CLASS-H01L-27/14	c 33	N91-14551 *	NAS 1.71:ARC-11368-2	c 27	N85-21347 *	NAS 1.71:LAR-14640-1-CU	c 74	N93-17052 *
INT-PATENT-CLASS-H01L-27/14	c 33	N91-21434 *	NAS 1.71:ARC-11423-1	c 03	N84-33394 *	NAS 1.71:LAR-14643-1	c 27	N92-29953 *
INT-PATENT-CLASS-H01L-27/14	c 35	N93-19387 *	NAS 1.71:ARC-11510-1	c 35	N86-32697 *	NAS 1.71:LAR-14645-1-SB	c 36	N94-15942 *
INT-PATENT-CLASS-H01L-29/161	c 74	N91-25841 *	NAS 1.71:ARC-11641-1	c 24	N88-18628 *	NAS 1.71:LAR-14651-1	c 82	N92-30386 *
INT-PATENT-CLASS-H01L-29/161	c 35	N93-19387 *	NAS 1.71:ARC-11652-1	c 27	N87-23737 *	NAS 1.71:LAR-14682-1	c 34	N92-30387 *
INT-PATENT-CLASS-H01L-29/205	c 76	N93-11056 *	NAS 1.71:ARC-11917-1	c 35	N91-15520 *	NAS 1.71:LAR-14725-1	c 38	N94-15870 *
INT-PATENT-CLASS-H01L-29/48	c 33	N92-16197 *	NAS 1.71:ARC-12001-1	c 71	N94-29363 *	NAS 1.71:LAR-14738-1	c 37	N93-29175 *
INT-PATENT-CLASS-H01L-31/06	c 44	N94-35230 *	NAS 1.71:ARC-12013-1-CU	c 32	N94-29364 *	NAS 1.71:LAR-14773-1	c 27	N92-10105 *
INT-PATENT-CLASS-H01L-31/10	c 76	N93-11056 *	NAS 1.71:ARC-12014-1	c 35	N94-29361 *	NAS 1.71:LAR-14775-1	c 39	N92-30099 *
INT-PATENT-CLASS-H01L-31/18	c 44	N91-27614 *	NAS 1.71:ARC-12015-1	c 60	N94-29375 *	NAS 1.71:LAR-14776-1	c 35	N93-12205 *
INT-PATENT-CLASS-H01L-31/42	c 44	N91-27614 *	NAS 1.71:ARC-12030-1	c 71	N94-29362 *	NAS 1.71:LAR-14779-1	c 74	N92-29951 *
INT-PATENT-CLASS-H01L-31/45	c 44	N94-20196 *	NAS 1.71:GSC-12558-1	c 36	N85-21639 *	NAS 1.71:LAR-14785-1	c 74	N93-19052 *
INT-PATENT-CLASS-H01L-35/12	c 35	N94-23826 *	NAS 1.71:GSC-12582-2	c 37	N85-20337 *	NAS 1.71:LAR-14790-1	c 36	N93-19373 *
INT-PATENT-CLASS-H01L-37/00	c 44	N92-16457 *	NAS 1.71:GSC-12682-1	c 35	N84-33765 *	NAS 1.71:LAR-14791-1	c 35	N93-31297 *
INT-PATENT-CLASS-H01L-39/22	c 76	N92-22041 *	NAS 1.71:GSC-12789-1	c 35	N85-20294 *	NAS 1.71:LAR-14815-1-CU	c 34	N92-29830 *
INT-PATENT-CLASS-H01L-39/22	c 76	N94-29501 *	NAS 1.71:GSC-12799-1	c 31	N85-21404 *	NAS 1.71:LAR-14816-1-SB	c 39	N93-19329 *
INT-PATENT-CLASS-H01L-41/08	c 71	N91-14808 *	NAS 1.71:GSC-12808-1	c 25	N85-21279 *	NAS 1.71:LAR-14835-1	c 35	N93-19328 *
INT-PATENT-CLASS-H01L-41/08	c 76	N91-14872 *	NAS 1.71:GSC-12944-1	c 52	N86-19885 *	NAS 1.71:LAR-14850-1-CU	c 38	N93-17048 *
INT-PATENT-CLASS-H01L-43/00	c 33	N91-14537 *	NAS 1.71:GSC-13265-1	c 76	N91-14066 *	NAS 1.71:LAR-14857-1-SB	c 74	N93-19374 *
INT-PATENT-CLASS-H01M-10/40	c 33	N92-28753 *	NAS 1.71:GSC-13343-1	c 36	N91-28557 *	NAS 1.71:LAR-14863-1-CU	c 24	N94-29485 *
INT-PATENT-CLASS-H01M-10/48	c 33	N94-23823 *	NAS 1.71:GSC-13356-1	c 37	N92-24243 *	NAS 1.71:LAR-14887-1	c 35	N94-15877 *
INT-PATENT-CLASS-H01M-4/04	c 33	N91-27478 *	NAS 1.71:GSC-13380-1	c 37	N92-23377 *	NAS 1.71:LAR-14918-1	c 31	N94-15881 *
INT-PATENT-CLASS-H01M-4/58	c 33	N91-27478 *	NAS 1.71:GSC-13370-1	c 37	N93-31317 *	NAS 1.71:LAR-14964-1-CU	c 33	N94-36781 *
INT-PATENT-CLASS-H01M-4/58	c 33	N94-29505 *	NAS 1.71:GSC-13404-1	c 33	N94-15874 *	NAS 1.71:LAR-14969-1	c 52	N94-17085 *
INT-PATENT-CLASS-H01M-6/20	c 33	N91-14538 *	NAS 1.71:GSC-13405-1	c 18	N92-24244 *	NAS 1.71:LAR-14987-2	c 27	N94-17559 *
INT-PATENT-CLASS-H01M-8/14	c 44	N93-28974 *	NAS 1.71:GSC-13450-1	c 44	N92-23463 *	NAS 1.71:LAR-14997-1	c 35	N94-29368 *
INT-PATENT-CLASS-H01N-1/26	c 34	N92-16243 *	NAS 1.71:GSC-13489-1	c 63	N94-15704 *	NAS 1.71:LAR-15003-1	c 09	N94-36826 *
INT-PATENT-CLASS-H01N-17/00	c 34	N92-16243 *	NAS 1.71:GSC-13541-1	c 63	N94-15946 *	NAS 1.71:LAR-15022-1	c 53	N93-28128 *
INT-PATENT-CLASS-H01P-1/18	c 74	N92-28571 *	NAS 1.71:GSC-13556-1	c 61	N94-15943 *	NAS 1.71:LAR-15046-1	c 38	N94-29366 *
INT-PATENT-CLASS-H01P-7/06	c 37	N94-20375 *	NAS 1.71:GSC-13562-1	c 61	N94-15703 *	NAS 1.71:LAR-15063-1	c 38	N93-30414 *
INT-PATENT-CLASS-H01Q-1/24	c 32	N94-35231 *	NAS 1.71:GSC-13564-1	c 35	N94-15872 *	NAS 1.71:LAR-15173-1-CU	c 24	N94-29496 *
INT-PATENT-CLASS-H01Q-1/380	c 32	N93-29507 *	NAS 1.71:KSC-11218-1	c 09	N85-19990 *	NAS 1.71:LEW-15229-1-CU	c 27	N94-29451 *
INT-PATENT-CLASS-H01Q-19/300	c 32	N93-29507 *	NAS 1.71:LAR-12588-1	c 34	N85-21568 *	NAS 1.71:LEW-12995-1	c 37	N84-33808 *
INT-PATENT-CLASS-H01R-13/00	c 37	N94-20126 *	NAS 1.71:LAR-12723-1	c 27	N85-20123 *	NAS 1.71:LEW-13324-2	c 24	N85-21266 *
INT-PATENT-CLASS-H01R-13/54	c 37	N93-14712 *	NAS 1.71:LAR-12775-2	c 27	N85-21349 *	NAS 1.71:LEW-13414-1	c 44	N85-20530 *
INT-PATENT-CLASS-H01R-43/00	c 37	N94-35375 *	NAS 1.71:LAR-12787-2	c 08	N85-19985 *	NAS 1.71:LEW-13495-1	c 33	N84-33663 *
INT-PATENT-CLASS-H01S-3/08	c 36	N93-18277 *	NAS 1.71:LAR-12858-2	c 27	N85-20124 *	NAS 1.71:LEW-13524-1	c 07	N84-33410 *
INT-PATENT-CLASS-H01S-3/098	c 36	N91-17360 *	NAS 1.71:LAR-12868-1	c 37	N85-21651 *	NAS 1.71:LEW-13639-1	c 26	N84-33555 *
INT-PATENT-CLASS-H01S-3/10	c 36	N92-31788 *	NAS 1.71:LAR-12884	c 18	N84-33450 *	NAS 1.71:LEW-13770-3	c 27	N85-21350 *
INT-PATENT-CLASS-H01S-3/16	c 36	N91-15528 *	NAS 1.71:LAR-12894-1	c 27	N85-20125 *	NAS 1.71:LEW-13770-4	c 27	N85-21351 *
INT-PATENT-CLASS-H01S-3/19	c 36	N93-13418 *	NAS 1.71:LAR-12979-1	c 05	N85-21147 *	NAS 1.71:LEW-13770-5	c 27	N85-21352 *
INT-PATENT-CLASS-H01S-3/19	c 36	N93-14703 *	NAS 1.71:LAR-13014-1	c 09	N85-21178 *	NAS 1.71:LEW-13827-1	c 44	N85-21768 *
INT-PATENT-CLASS-H01S-3/22	c 25	N91-21270 *	NAS 1.71:LAR-13065-1	c 35	N85-20295 *	NAS 1.71:LEW-13833-1	c 33	N85-21492 *
INT-PATENT-CLASS-H02K-1/14	c 37	N92-29099 *	NAS 1.71:LAR-13230-1	c 24	N84-34571 *	NAS 1.71:LEW-13837-2	c 24	N85-21267 *
INT-PATENT-CLASS-H02K-41/00	c 37	N91-21539 *	NAS 1.71:LAR-13233-1	c 05	N84-33400 *	NAS 1.71:LEW-13881-1	c 20	N85-21256 *
INT-PATENT-CLASS-H02K-44/10	c 27	N91-14489 *	NAS 1.71:LAR-13256-1	c 36	N86-29204 *	NAS 1.71:LEW-14080-1	c 31	N85-20153 *
INT-PATENT-CLASS-H02K-7/09	c 70	N91-21824 *	NAS 1.71:LAR-13257-1	c 25	N84-32447 *	NAS 1.71:LEW-14127-1	c 33	N86-20680 *
INT-PATENT-CLASS-H02L-9/04	c 60	N90-25583 *	NAS 1.71:LAR-13292-1	c 27	N86-24841 *	NAS 1.71:LEW-14162-1	c 34	N91-13668 *
INT-PATENT-CLASS-H02M-3/07	c 33	N93-18278 *	NAS 1.71:LAR-13387-1	c 74	N88-25302 *	NAS 1.71:LEW-14345-7	c 23	N93-17412 *
INT-PATENT-CLASS-H02N-1/08	c 33	N92-22042 *	NAS 1.71:LAR-13400-1	c 02	N93-22015 *	NAS 1.71:LEW-14474-1	c 27	N91-28423 *
INT-PATENT-CLASS-H03B-5/12	c 33	N90-23635 *	NAS 1.71:LAR-13447-1	c 27	N88-18725 *	NAS 1.71:LEW-14676-2	c 76	N90-17454 *
INT-PATENT-CLASS-H03D-1/00	c 33	N91-14550 *	NAS 1.71:LAR-13519-1	c 35</				

NAS 1.71:LEW-14945-1	c 32	N91-13598 *	#	NAS 1.71:MSC-20783-1	c 35	N86-20756 *	#	NAS 1.71:NPO-17310-1-CU	c 17	N88-28946 *	#
NAS 1.71:LEW-14965-1	c 37	N91-13732 *	#	NAS 1.71:MSC-20865-1	c 32	N87-18692 *	#	NAS 1.71:NPO-17334-1-CU	c 31	N88-23917 *	#
NAS 1.71:LEW-15020-1	c 27	N91-15412 *	#	NAS 1.71:MSC-20907-1	c 37	N87-18818 *	#	NAS 1.71:NPO-17393-1-CU	c 33	N89-29679 *	#
NAS 1.71:LEW-15027-1	c 27	N91-13566 *	#	NAS 1.71:MSC-20964-1	c 60	N87-14863 *	#	NAS 1.71:NPO-17399-1-CU	c 76	N89-14120 *	#
NAS 1.71:LEW-15027-2	c 27	N92-24053 *	#	NAS 1.71:MSC-21082-1	c 27	N87-29672 *	#	NAS 1.71:NPO-17479-1-CU	c 34	N91-13658 *	#
NAS 1.71:LEW-15154-1	c 27	N93-19332 *	#	NAS 1.71:MSC-21094-1	c 35	N88-24941 *	#	NAS 1.71:NPO-17524-1-CU	c 27	N90-10261 *	#
NAS 1.71:LEW-15154-2	c 27	N93-31300 *	#	NAS 1.71:MSC-21095-1	c 37	N89-12866 *	#	NAS 1.71:NPO-17548-1-CU	c 32	N90-16104 *	#
NAS 1.71:LEW-15164-1	c 27	N91-25298 *	#	NAS 1.71:MSC-21171-1	c 37	N88-23973 *	#	NAS 1.71:NPO-17596-1-CU	c 35	N89-28795 *	#
NAS 1.71:LEW-15170-1	c 71	N93-28953 *	#	NAS 1.71:MSC-21299-1	c 20	N88-24684 *	#	NAS 1.71:NPO-17630-1-CU	c 31	N89-29577 *	#
NAS 1.71:LEW-15222-1	c 76	N91-26966 *	#	NAS 1.71:MSC-21327-1	c 18	N90-11798 *	#	NAS 1.71:NPO-17632-1-CU	c 60	N91-32805 *	#
NAS 1.71:LEW-15222-3	c 76	N93-17413 *	#	NAS 1.71:MSC-21330-1	c 16	N88-24660 *	#	NAS 1.71:NPO-17723-1-CU	c 76	N90-26685 *	#
NAS 1.71:LEW-15241-2	c 24	N93-31296 *	#	NAS 1.71:MSC-21354-1	c 37	N88-24969 *	#	NAS 1.71:NPO-17784-1-CU	c 74	N91-13998 *	#
NAS 1.71:LEW-15263-1	c 24	N93-11543 *	#	NAS 1.71:MSC-21364-1	c 54	N89-13889 *	#	NAS 1.71:NPO-17785-1-CU	c 37	N89-28846 *	#
NAS 1.71:LEW-15263-2	c 24	N94-15929 *	#	NAS 1.71:MSC-21372-1	c 35	N89-12842 *	#	NAS 1.71:NPO-17786-1-CU	c 35	N90-17104 *	#
NAS 1.71:LEW-15264-1	c 24	N93-31293 *	#	NAS 1.71:MSC-21379-1-SB	c 61	N90-21340 *	#	NAS 1.71:NPO-17794-1-CU	c 74	N92-30104 *	#
NAS 1.71:LEW-15269-1	c 24	N93-20040 *	#	NAS 1.71:MSC-21460-1	c 54	N91-13779 *	#	NAS 1.71:NPO-17812-1-CU	c 76	N90-17456 *	#
NAS 1.71:LEW-15306-2	c 27	N93-28425 *	#	NAS 1.71:MSC-21481-1	c 60	N91-13890 *	#	NAS 1.71:NPO-17835-1-CU	c 76	N90-27518 *	#
NAS 1.71:LEW-15310-1	c 32	N94-29589 *	#	NAS 1.71:MSC-21529-1	c 27	N92-30100 *	#	NAS 1.71:NPO-17836-1-CU	c 32	N92-10126 *	#
NAS 1.71:LEW-15314-2	c 27	N93-28423 *	#	NAS 1.71:MSC-21577-1-SB	c 25	N91-23271 *	#	NAS 1.71:NPO-17904-1-CU	c 32	N91-13594 *	#
NAS 1.71:LEW-15360-1	c 25	N92-34206 *	#	NAS 1.71:MSC-21632-1	c 54	N92-34210 *	#	NAS 1.71:NPO-17911-1-CU	c 32	N90-27016 *	#
NAS 1.71:LEW-15407-1	c 33	N94-15706 *	#	NAS 1.71:MSC-21648-1	c 37	N92-24051 *	#	NAS 1.71:NPO-17970-1-CU	c 43	N90-26384 *	#
NAS 1.71:LEW-15430-1	c 71	N93-17051 *	#	NAS 1.71:MSC-21715-1	c 51	N94-15967 *	#	NAS 1.71:NPO-18357-1-CU	c 74	N93-29848 *	#
NAS 1.71:LEW-15576-1	c 27	N93-31316 *	#	NAS 1.71:MSC-21737-1	c 61	N91-13911 *	#	NAS 1.71:NPO-18391-1-CU	c 20	N93-28424 *	#
NAS 1.71:LEW-15700-1	c 82	N93-28130 *	#	NAS 1.71:MSC-21760-1	c 15	N94-29369 *	#	NAS 1.71:NPO-18399-1-CU	c 33	N94-17323 *	#
NAS 1.71:LEW-15818-1	c 24	N94-36752 *	#	NAS 1.71:MSC-21797-1	c 35	N93-17076 *	#	NAS 1.71:NPO-18415-1-CU	c 62	N92-24045 *	#
NAS 1.71:MFS-25302-2	c 33	N84-33660 *	#	NAS 1.71:MSC-21806-1	c 74	N92-17863 *	#	NAS 1.71:NPO-18434-1-CU	c 61	N92-30543 *	#
NAS 1.71:MFS-25637-1	c 44	N85-21769 *	#	NAS 1.71:MSC-21842-1	c 54	N93-17088 *	#	NAS 1.71:NPO-18448-1-CU	c 29	N92-30083 *	#
NAS 1.71:MFS-25717-1	c 35	N84-33768 *	#	NAS 1.71:MSC-21843-1-NP	c 51	N92-24052 *	#	NAS 1.71:NPO-18470-1-CU	c 36	N94-15932 *	#
NAS 1.71:MFS-25721-1	c 25	N85-21280 *	#	NAS 1.71:MSC-21858-1	c 52	N92-11628 *	#	NAS 1.71:NPO-18492-1-CU	c 63	N93-29176 *	#
NAS 1.71:MFS-25852-1	c 33	N84-33661 *	#	NAS 1.71:MSC-21915-1	c 74	N92-30027 *	#	NAS 1.71:NPO-18498-1-CU	c 37	N92-24043 *	#
NAS 1.71:MFS-25861-1	c 33	N85-22877 *	#	NAS 1.71:MSC-21940-1	c 37	N92-30540 *	#	NAS 1.71:NPO-18499-1-CU	c 37	N92-24042 *	#
NAS 1.71:MFS-25862-1	c 27	N85-20126 *	#	NAS 1.71:MSC-21941-1	c 54	N93-17087 *	#	NAS 1.71:NPO-18501-1-CU	c 27	N93-28426 *	#
NAS 1.71:MFS-25862-2	c 37	N84-33807 *	#	NAS 1.71:MSC-21953-1-NP	c 37	N93-17271 *	#	NAS 1.71:NPO-18521-1-CU	c 74	N93-14404 *	#
NAS 1.71:MFS-26002-1-CU	c 35	N86-26598 *	#	NAS 1.71:MSC-21954-1-NP	c 51	N93-19054 *	#	NAS 1.71:NPO-18547-1-CU	c 33	N94-17324 *	#
NAS 1.71:MFS-26049-1-NP	c 25	N89-28603 *	#	NAS 1.71:MSC-21961-1	c 35	N92-29952 *	#	NAS 1.71:NPO-18551-1-CU	c 33	N93-17277 *	#
NAS 1.71:MFS-26061-1	c 76	N91-16815 *	#	NAS 1.71:MSC-21979-1	c 51	N93-17049 *	#	NAS 1.71:NPO-18552-1-CU	c 33	N92-24246 *	#
NAS 1.71:MFS-26083-1-CU	c 26	N90-26940 *	#	NAS 1.71:MSC-21984-1	c 51	N94-15969 *	#	NAS 1.71:NPO-18553-1-CU	c 63	N92-30085 *	#
NAS 1.71:MFS-26102-1-CU	c 47	N91-15661 *	#	NAS 1.71:MSC-21998-1	c 37	N94-15707 *	#	NAS 1.71:NPO-18579-1-CU	c 63	N93-11174 *	#
NAS 1.71:MFS-28008-1	c 35	N85-20300 *	#	NAS 1.71:MSC-22008-1	c 35	N93-17077 *	#	NAS 1.71:NPO-18584-1-CU	c 37	N93-11177 *	#
NAS 1.71:MFS-28013-1	c 89	N86-22459 *	#	NAS 1.71:MSC-22015-1	c 18	N93-20042 *	#	NAS 1.71:NPO-18585-1-CU	c 33	N94-28411 *	#
NAS 1.71:MFS-28013-2	c 89	N91-14096 *	#	NAS 1.71:MSC-22021-1	c 18	N94-15935 *	#	NAS 1.71:NPO-18586-1-CU	c 63	N93-17276 *	#
NAS 1.71:MFS-28013-3	c 89	N90-27594 *	#	NAS 1.71:MSC-22090-1	c 34	N94-15962 *	#	NAS 1.71:NPO-18596-1-CU	c 36	N93-28132 *	#
NAS 1.71:MFS-28139-1	c 29	N87-18679 *	#	NAS 1.71:MSC-22093-1	c 31	N93-28136 *	#	NAS 1.71:NPO-18607-1-CU	c 37	N92-23553 *	#
NAS 1.71:MFS-28153-1	c 31	N86-32589 *	#	NAS 1.71:MSC-22093-1	c 82	N93-22017 *	#	NAS 1.71:NPO-18611-1-CU	c 36	N93-30415 *	#
NAS 1.71:MFS-28161-1	c 37	N87-18817 *	#	NAS 1.71:MSC-22111-1	c 37	N94-15966 *	#	NAS 1.71:NPO-18645-1-CU	c 63	N92-34240 *	#
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US-PATENT-APPL-SN-042486	c 62	N93-28427 *	US-PATENT-APPL-SN-073477	c 36	N82-32712 *	US-PATENT-APPL-SN-103836	c 37	N81-24443 *
US-PATENT-APPL-SN-043911	c 05	N82-26277 *	US-PATENT-APPL-SN-073539	c 18	N87-29586 *	US-PATENT-APPL-SN-104047	c 15	N72-31483 *
US-PATENT-APPL-SN-043912	c 43	N81-17499 *	US-PATENT-APPL-SN-073541	c 33	N90-19492 *	US-PATENT-APPL-SN-104048	c 31	N73-14855 *
US-PATENT-APPL-SN-043913	c 54	N81-27806 *	US-PATENT-APPL-SN-073579	c 33	N82-24415 *	US-PATENT-APPL-SN-104187	c 14	N70-36618 *
US-PATENT-APPL-SN-043941	c 44	N81-19558 *	US-PATENT-APPL-SN-073845	c 33	N94-15988 *	US-PATENT-APPL-SN-104188	c 09	N70-34819 *
US-PATENT-APPL-SN-043942	c 06	N82-16075 *	US-PATENT-APPL-SN-073847	c 18	N94-15935 *	US-PATENT-APPL-SN-104346	c 14	N73-28488 *
US-PATENT-APPL-SN-043943	c 33	N82-24419 *	US-PATENT-APPL-SN-074792	c 35	N88-30108 *	US-PATENT-APPL-SN-104884	c 15	N72-33476 *
US-PATENT-APPL-SN-043944	c 24	N82-24296 *	US-PATENT-APPL-SN-076643	c 32	N81-29308 *	US-PATENT-APPL-SN-104885	c 14	N73-24472 *
US-PATENT-APPL-SN-043945	c 47	N82-24779 *	US-PATENT-APPL-SN-076955	c 16	N90-22584 *	US-PATENT-APPL-SN-104951	c 37	N93-31314 *
US-PATENT-APPL-SN-044180	c 35	N87-25558 *	US-PATENT-APPL-SN-076956	c 35	N88-29151 *	US-PATENT-APPL-SN-105161	c 35	N94-15877 *
US-PATENT-APPL-SN-044181	c 37	N88-23980 *	US-PATENT-APPL-SN-077132	c 23	N94-29554 *	US-PATENT-APPL-SN-105518	c 23	N71-15978 *
US-PATENT-APPL-SN-044183	c 27	N89-29539 *	US-PATENT-APPL-SN-077166	c 27	N94-17559 *	US-PATENT-APPL-SN-105528	c 36	N94-15942 *
US-PATENT-APPL-SN-044431	c 33	N81-27395 *	US-PATENT-APPL-SN-078521	c 32	N81-14186 *	US-PATENT-APPL-SN-105728	c 76	N94-17327 *
US-PATENT-APPL-SN-044432	c 52	N81-20703 *	US-PATENT-APPL-SN-078611	c 04	N81-21047 *	US-PATENT-APPL-SN-105841	c 18	N89-28553 *
US-PATENT-APPL-SN-044449	c 35	N94-35114 *	US-PATENT-APPL-SN-078612	c 46	N82-12685 *	US-PATENT-APPL-SN-105846	c 24	N91-25200 *
US-PATENT-APPL-SN-044668	c 36	N93-30415 *	US-PATENT-APPL-SN-079316	c 26	N87-29650 *	US-PATENT-APPL-SN-105847	c 31	N89-14351 *
US-PATENT-APPL-SN-045336	c 27	N94-23307 *	US-PATENT-APPL-SN-079317	c 37	N88-30131 *	US-PATENT-APPL-SN-106106	c 91	N74-13130 *
US-PATENT-APPL-SN-045343	c 25	N94-35077 *	US-PATENT-APPL-SN-079920	c 27	N87-29672 *	US-PATENT-APPL-SN-106118	c 32	N80-16261 *
US-PATENT-APPL-SN-045743	c 35	N88-24972 *	US-PATENT-APPL-SN-079913	c 05	N82-28279 *	US-PATENT-APPL-SN-106119	c 35	N82-15381 *
US-PATENT-APPL-SN-045984	c 36	N88-24958 *	US-PATENT-APPL-SN-081180	c 27	N93-28423 *	US-PATENT-APPL-SN-106135	c 28	N70-34294 *
US-PATENT-APPL-SN-046256	c 71	N93-28953 *	US-PATENT-APPL-SN-081890	c 37	N93-31292 *	US-PATENT-APPL-SN-106136	c 33	N82-26572 *
US-PATENT-APPL-SN-046331	c 74	N93-28133 *	US-PATENT-APPL-SN-081910	c 27	N93-31316 *	US-PATENT-APPL-SN-106188	c 27	N80-16163 *
US-PATENT-APPL-SN-046341	c 20	N89-25279 *	US-PATENT-APPL-SN-082766	c 09	N90-20096 *	US-PATENT-APPL-SN-106192	c 34	N83-28356 *
US-PATENT-APPL-SN-046739	c 54	N81-24724 *	US-PATENT-APPL-SN-082766	c 04	N91-31120 *	US-PATENT-APPL-SN-106424	c 17	N73-25459 *
US-PATENT-APPL-SN-047120	c 35	N94-35078 *	US-PATENT-APPL-SN-083246	c 27	N93-31300 *	US-PATENT-APPL-SN-106465	c 30	N73-12884 *
US-PATENT-APPL-SN-047135	c 38	N93-30413 *	US-PATENT-APPL-SN-084058	c 24	N94-29508 *	US-PATENT-APPL-SN-107298	c 32	N73-13921 *
US-PATENT-APPL-SN-048871	c 37	N94-35375 *	US-PATENT-APPL-SN-084062	c 35	N90-20351 *	US-PATENT-APPL-SN-107376	c 15	N73-25513 *
US-PATENT-APPL-SN-049648	c 16	N94-20304 *	US-PATENT-APPL-SN-084064	c 27	N92-29157 *	US-PATENT-APPL-SN-107379	c 10	N72-33230 *
US-PATENT-APPL-SN-051269	c 33	N81-24338 *	US-PATENT-APPL-SN-084064	c 27	N94-23079 *	US-PATENT-APPL-SN-107380	c 28	N73-13773 *
US-PATENT-APPL-SN-051270	c 32	N80-32604 *	US-PATENT-APPL-SN-084770	c 32	N88-29076 *	US-PATENT-APPL-SN-107659	c 23	N73-20741 *
US-PATENT-APPL-SN-051271	c 33	N81-26359 *	US-PATENT-APPL-SN-085833	c 62	N91-14772 *	US-PATENT-APPL-SN-107866	c 17	N70-36616 *
US-PATENT-APPL-SN-051274	c 34	N81-26402 *	US-PATENT-APPL-SN-086581	c 34	N94-29740 *	US-PATENT-APPL-SN-108170	c 15	N70-36411 *
US-PATENT-APPL-SN-051275	c 44	N82-24640 *	US-PATENT-APPL-SN-086584	c 35	N94-23826 *	US-PATENT-APPL-SN-108707	c 37	N82-18601 *
US-PATENT-APPL-SN-051276	c 33	N81-33404 *	US-PATENT-APPL-SN-087281	c 52	N90-20616 *	US-PATENT-APPL-SN-108712	c 28	N70-40367 *
US-PATENT-APPL-SN-052419	c 27	N93-28426 *	US-PATENT-APPL-SN-087282	c 31	N89-12785 *	US-PATENT-APPL-SN-108727	c 14	N72-28436 *
US-PATENT-APPL-SN-052940	c 37	N89-13786 *	US-PATENT-APPL-SN-087283	c 71	N89-13236 *	US-PATENT-APPL-SN-108831	c 26	N89-14303 *
US-PATENT-APPL-SN-052941	c 35	N87-25561 *	US-PATENT-APPL-SN-087358	c 51	N91-14703 *	US-PATENT-APPL-SN-108810	c 33	N77-22386 *
US-PATENT-APPL-SN-053566	c 09	N82-24212 *	US-PATENT-APPL-SN-087359	c 35	N89-14422 *	US-PATENT-APPL-SN-108824	c 31	N73-13898 *
US-PATENT-APPL-SN-053569	c 35	N81-19426 *	US-PATENT-APPL-SN-087375	c 27	N90-23545 *	US-PATENT-APPL-SN-109789	c 09	N70-34596 *
US-PATENT-APPL-SN-053571	c 31	N81-19343 *	US-PATENT-APPL-SN-087375	c 23	N91-14419 *	US-PATENT-APPL-SN-110181	c 37	N94-29556 *
US-PATENT-APPL-SN-053572	c 32	N82-23376 *	US-PATENT-APPL-SN-087376	c 27	N91-14489 *	US-PATENT-APPL-SN-110255	c 38	N94-15870 *
US-PATENT-APPL-SN-053652	c 33	N82-18494 *	US-PATENT-APPL-SN-088663	c 28	N82-18401 *	US-PATENT-APPL-SN-110278	c 24	N94-15878 *
US-PATENT-APPL-SN-054501	c 23	N82-16174 *	US-PATENT-APPL-SN-089064	c 20	N94-15876 *	US-PATENT-APPL-SN-110388	c 18	N90-16860 *
US-PATENT-APPL-SN-054980	c 35	N88-29149 *	US-PATENT-APPL-SN-089779	c 26	N81-25188 *	US-PATENT-APPL-SN-110402	c 09	N72-27226 *
US-PATENT-APPL-SN-054982	c 23	N90-23475 *	US-PATENT-APPL-SN-090230	c 35	N94-15872 *	US-PATENT-APPL-SN-110591	c 15	N70-39896 *
US-PATENT-APPL-SN-054983	c 37	N87-25585 *	US-PATENT-APPL-SN-090584	c 74	N81-18896 *	US-PATENT-APPL-SN-111317	c 33	N94-17323 *
US-PATENT-APPL-SN-054985	c 23	N90-20133 *	US-PATENT-APPL-SN-090838	c 20	N93-31295 *	US-PATENT-APPL-SN-111318	c 62	N94-17328 *
US-PATENT-APPL-SN-055809	c 33	N92-16197 *	US-PATENT-APPL-SN-090874	c 25	N90-20180 *	US-PATENT-APPL-SN-111321	c 35	N94-15884 *
US-PATENT-APPL-SN-056018	c 32	N93-28422 *	US-PATENT-APPL-SN-0914	c 28	N70-38711 *	US-PATENT-APPL-S		

US-PATENT-APPL-SN-111998	c 21	N73-30640 *	US-PATENT-APPL-SN-129072	c 15	N73-13467 *	US-PATENT-APPL-SN-145209	c 27	N82-29453 *
US-PATENT-APPL-SN-11220	c 14	N73-30389 *	US-PATENT-APPL-SN-129073	c 15	N73-13464 *	US-PATENT-APPL-SN-145210	c 09	N82-23254 *
US-PATENT-APPL-SN-112366	c 06	N72-10138 *	US-PATENT-APPL-SN-129379	c 37	N79-33468 *	US-PATENT-APPL-SN-145271	c 23	N81-29160 *
US-PATENT-APPL-SN-112483	c 33	N94-17325 *	US-PATENT-APPL-SN-129579	c 28	N70-35381 *	US-PATENT-APPL-SN-145272	c 33	N82-28545 *
US-PATENT-APPL-SN-112497	c 62	N94-17330 *	US-PATENT-APPL-SN-129778	c 60	N82-24839 *	US-PATENT-APPL-SN-145273	c 51	N81-32829 *
US-PATENT-APPL-SN-112998	c 07	N72-32169 *	US-PATENT-APPL-SN-129779	c 60	N82-16747 *	US-PATENT-APPL-SN-145282	c 74	N82-24072 *
US-PATENT-APPL-SN-112998	c 14	N73-12445 *	US-PATENT-APPL-SN-129780	c 44	N82-24639 *	US-PATENT-APPL-SN-145283	c 27	N81-24256 *
US-PATENT-APPL-SN-112999	c 23	N72-25619 *	US-PATENT-APPL-SN-129783	c 04	N82-23231 *	US-PATENT-APPL-SN-145284	c 27	N82-24338 *
US-PATENT-APPL-SN-112999	c 32	N79-19186 *	US-PATENT-APPL-SN-129793	c 33	N82-16340 *	US-PATENT-APPL-SN-145719	c 25	N90-20154 *
US-PATENT-APPL-SN-113014	c 27	N81-24257 *	US-PATENT-APPL-SN-129798	c 27	N81-27271 *	US-PATENT-APPL-SN-146217	c 14	N71-34389 *
US-PATENT-APPL-SN-113015	c 37	N82-24491 *	US-PATENT-APPL-SN-129799	c 27	N82-18389 *	US-PATENT-APPL-SN-146935	c 14	N73-20475 *
US-PATENT-APPL-SN-113954	c 33	N90-23636 *	US-PATENT-APPL-SN-130058	c 33	N90-22724 *	US-PATENT-APPL-SN-146938	c 35	N88-23963 *
US-PATENT-APPL-SN-113956	c 60	N90-21527 *	US-PATENT-APPL-SN-130353	c 31	N73-14853 *	US-PATENT-APPL-SN-146939	c 73	N75-30876 *
US-PATENT-APPL-SN-114043	c 37	N94-15882 *	US-PATENT-APPL-SN-130496	c 36	N83-10417 *	US-PATENT-APPL-SN-146939	c 35	N92-21710 *
US-PATENT-APPL-SN-114772	c 04	N76-26175 *	US-PATENT-APPL-SN-130948	c 32	N94-29364 *	US-PATENT-APPL-SN-146939	c 09	N93-11057 *
US-PATENT-APPL-SN-114846	c 14	N73-12444 *	US-PATENT-APPL-SN-132364	c 07	N83-36029 *	US-PATENT-APPL-SN-146940	c 05	N73-32014 *
US-PATENT-APPL-SN-114847	c 15	N72-28496 *	US-PATENT-APPL-SN-13266	c 05	N72-23085 *	US-PATENT-APPL-SN-147099	c 14	N73-13417 *
US-PATENT-APPL-SN-114848	c 11	N72-23215 *	US-PATENT-APPL-SN-133412	c 33	N89-29681 *	US-PATENT-APPL-SN-147103	c 10	N73-20253 *
US-PATENT-APPL-SN-114849	c 09	N72-27227 *	US-PATENT-APPL-SN-133413	c 27	N90-23544 *	US-PATENT-APPL-SN-147695	c 32	N84-27952 *
US-PATENT-APPL-SN-114873	c 09	N73-28083 *	US-PATENT-APPL-SN-134441	c 26	N94-29447 *	US-PATENT-APPL-SN-147700	c 27	N82-24339 *
US-PATENT-APPL-SN-115082	c 18	N73-13562 *	US-PATENT-APPL-SN-134443	c 37	N94-29353 *	US-PATENT-APPL-SN-147922	c 28	N73-19793 *
US-PATENT-APPL-SN-115083	c 07	N73-25160 *	US-PATENT-APPL-SN-134444	c 38	N94-29366 *	US-PATENT-APPL-SN-147940	c 14	N72-10375 *
US-PATENT-APPL-SN-115134	c 06	N73-13128 *	US-PATENT-APPL-SN-134479	c 14	N70-33179 *	US-PATENT-APPL-SN-147996	c 28	N73-24784 *
US-PATENT-APPL-SN-115536	c 33	N82-24417 *	US-PATENT-APPL-SN-134481	c 11	N70-34815 *	US-PATENT-APPL-SN-147997	c 15	N72-33477 *
US-PATENT-APPL-SN-115832	c 34	N94-15962 *	US-PATENT-APPL-SN-134567	c 14	N73-16484 *	US-PATENT-APPL-SN-148001	c 14	N70-34298 *
US-PATENT-APPL-SN-115944	c 03	N71-34044 *	US-PATENT-APPL-SN-134568	c 06	N72-31141 *	US-PATENT-APPL-SN-148756	c 15	N73-13466 *
US-PATENT-APPL-SN-116777	c 09	N73-19235 *	US-PATENT-APPL-SN-134571	c 21	N73-13844 *	US-PATENT-APPL-SN-149283	c 35	N72-17153 *
US-PATENT-APPL-SN-116778	c 09	N72-33205 *	US-PATENT-APPL-SN-134573	c 09	N72-25257 *	US-PATENT-APPL-SN-149526	c 52	N82-33996 *
US-PATENT-APPL-SN-116786	c 07	N72-25172 *	US-PATENT-APPL-SN-134619	c 35	N79-33449 *	US-PATENT-APPL-SN-149821	c 31	N88-23917 *
US-PATENT-APPL-SN-116790	c 14	N73-30388 *	US-PATENT-APPL-SN-134658	c 15	N73-28515 *	US-PATENT-APPL-SN-149822	c 35	N89-26202 *
US-PATENT-APPL-SN-116810	c 33	N88-26596 *	US-PATENT-APPL-SN-134782	c 09	N70-36494 *	US-PATENT-APPL-SN-149830	c 37	N88-23974 *
US-PATENT-APPL-SN-116811	c 35	N90-21358 *	US-PATENT-APPL-SN-134855	c 44	N81-24521 *	US-PATENT-APPL-SN-149889	c 31	N94-29379 *
US-PATENT-APPL-SN-117511	c 35	N94-35368 *	US-PATENT-APPL-SN-135038	c 33	N83-31954 *	US-PATENT-APPL-SN-149896	c 71	N94-29363 *
US-PATENT-APPL-SN-117575	c 08	N73-12177 *	US-PATENT-APPL-SN-135039	c 33	N82-24416 *	US-PATENT-APPL-SN-149983	c 31	N72-21893 *
US-PATENT-APPL-SN-117587	c 37	N94-29365 *	US-PATENT-APPL-SN-135040	c 09	N82-11088 *	US-PATENT-APPL-SN-150040	c 36	N82-29589 *
US-PATENT-APPL-SN-118169	c 14	N70-35220 *	US-PATENT-APPL-SN-135056	c 37	N81-33483 *	US-PATENT-APPL-SN-150115	c 44	N82-16475 *
US-PATENT-APPL-SN-118200	c 15	N70-34247 *	US-PATENT-APPL-SN-135057	c 08	N82-32373 *	US-PATENT-APPL-SN-150169	c 25	N91-31258 *
US-PATENT-APPL-SN-118202	c 28	N70-38710 *	US-PATENT-APPL-SN-135058	c 25	N82-26396 *	US-PATENT-APPL-SN-15019	c 15	N72-17455 *
US-PATENT-APPL-SN-118203	c 14	N70-38602 *	US-PATENT-APPL-SN-135120	c 37	N88-23973 *	US-PATENT-APPL-SN-15020	c 14	N70-34697 *
US-PATENT-APPL-SN-118269	c 33	N73-26958 *	US-PATENT-APPL-SN-136006	c 09	N72-28225 *	US-PATENT-APPL-SN-150215	c 33	N73-25952 *
US-PATENT-APPL-SN-118270	c 09	N72-25260 *	US-PATENT-APPL-SN-136007	c 09	N71-34212 *	US-PATENT-APPL-SN-15022	c 15	N72-21465 *
US-PATENT-APPL-SN-11853	c 15	N71-28951 *	US-PATENT-APPL-SN-136008	c 27	N74-13270 *	US-PATENT-APPL-SN-15023	c 15	N70-34699 *
US-PATENT-APPL-SN-118992	c 37	N88-29181 *	US-PATENT-APPL-SN-136085	c 17	N73-12547 *	US-PATENT-APPL-SN-15024	c 09	N72-21245 *
US-PATENT-APPL-SN-118993	c 52	N90-21519 *	US-PATENT-APPL-SN-136086	c 15	N73-19457 *	US-PATENT-APPL-SN-15025	c 03	N72-20033 *
US-PATENT-APPL-SN-118993	c 52	N92-11621 *	US-PATENT-APPL-SN-136253	c 27	N74-12814 *	US-PATENT-APPL-SN-150690	c 35	N79-33450 *
US-PATENT-APPL-SN-118995	c 32	N89-25363 *	US-PATENT-APPL-SN-136652	c 07	N84-24577 *	US-PATENT-APPL-SN-151112	c 15	N70-34814 *
US-PATENT-APPL-SN-119282	c 03	N72-23048 *	US-PATENT-APPL-SN-136660	c 31	N83-34073 *	US-PATENT-APPL-SN-151114	c 31	N70-34176 *
US-PATENT-APPL-SN-119334	c 31	N88-29052 *	US-PATENT-APPL-SN-137391	c 36	N75-31426 *	US-PATENT-APPL-SN-151411	c 07	N73-26118 *
US-PATENT-APPL-SN-119335	c 37	N82-24494 *	US-PATENT-APPL-SN-137912	c 06	N72-21105 *	US-PATENT-APPL-SN-151412	c 09	N73-32112 *
US-PATENT-APPL-SN-119336	c 33	N82-24421 *	US-PATENT-APPL-SN-138046	c 35	N94-35369 *	US-PATENT-APPL-SN-151413	c 14	N73-12447 *
US-PATENT-APPL-SN-119337	c 24	N81-33235 *	US-PATENT-APPL-SN-138227	c 26	N72-27784 *	US-PATENT-APPL-SN-151598	c 03	N70-34134 *
US-PATENT-APPL-SN-119339	c 36	N82-28616 *	US-PATENT-APPL-SN-138229	c 15	N72-32487 *	US-PATENT-APPL-SN-151690	c 71	N94-29362 *
US-PATENT-APPL-SN-119340	c 35	N82-11432 *	US-PATENT-APPL-SN-138230	c 32	N73-20740 *	US-PATENT-APPL-SN-15222	c 18	N72-25539 *
US-PATENT-APPL-SN-120241	c 15	N73-24513 *	US-PATENT-APPL-SN-138944	c 37	N82-26672 *	US-PATENT-APPL-SN-152328	c 02	N74-20646 *
US-PATENT-APPL-SN-120795	c 07	N70-40202 *	US-PATENT-APPL-SN-139006	c 09	N70-38604 *	US-PATENT-APPL-SN-152631	c 35	N94-29497 *
US-PATENT-APPL-SN-120797	c 14	N70-36824 *	US-PATENT-APPL-SN-139007	c 28	N70-37245 *	US-PATENT-APPL-SN-152849	c 15	N73-30457 *
US-PATENT-APPL-SN-120803	c 08	N70-34743 *	US-PATENT-APPL-SN-139012	c 03	N70-38713 *	US-PATENT-APPL-SN-153240	c 33	N86-19515 *
US-PATENT-APPL-SN-121328	c 23	N72-11568 *	US-PATENT-APPL-SN-139094	c 05	N73-32011 *	US-PATENT-APPL-SN-153245	c 74	N83-29032 *
US-PATENT-APPL-SN-122740	c 35	N88-23959 *	US-PATENT-APPL-SN-139250	c 04	N73-27052 *	US-PATENT-APPL-SN-153246	c 52	N82-29863 *
US-PATENT-APPL-SN-122965	c 35	N81-26431 *	US-PATENT-APPL-SN-139528	c 03	N72-25020 *	US-PATENT-APPL-SN-153266	c 02	N70-38011 *
US-PATENT-APPL-SN-122966	c 33	N82-26568 *	US-PATENT-APPL-SN-139596	c 33	N77-13315 *	US-PATENT-APPL-SN-153542	c 28	N73-32066 *
US-PATENT-APPL-SN-122967	c 24	N81-26179 *	US-PATENT-APPL-SN-140185	c 76	N91-21911 *	US-PATENT-APPL-SN-153543	c 08	N73-26176 *
US-PATENT-APPL-SN-123253	c 10	N73-12244 *	US-PATENT-APPL-SN-140185	c 74	N92-29158 *	US-PATENT-APPL-SN-153595	c 37	N94-29370 *
US-PATENT-APPL-SN-123597	c 21	N70-34297 *	US-PATENT-APPL-SN-140185	c 74	N92-29158 *	US-PATENT-APPL-SN-153624	c 37	N75-27376 *
US-PATENT-APPL-SN-123629	c 35	N94-29358 *	US-PATENT-APPL-SN-140439	c 33	N93-20119 *	US-PATENT-APPL-SN-153930	c 52	N94-17085 *
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US-PATENT-APPL-SN-246774	c 34	N83-31993 *	US-PATENT-APPL-SN-260762	c 72	N91-14813 *	US-PATENT-APPL-SN-276599	c 74	N81-19896 *
US-PATENT-APPL-SN-246777	c 45	N83-25217 *	US-PATENT-APPL-SN-261183	c 09	N74-30597 *	US-PATENT-APPL-SN-276748	c 33	N83-34189 *
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US-PATENT-APPL-SN-248475	c 18	N83-29303 *	US-PATENT-APPL-SN-264268	c 31	N78-17238 *	US-PATENT-APPL-SN-280032	c 35	N74-15093 *
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US-PATENT-APPL-SN-248476	c 15	N74-27360 *	US-PATENT-APPL-SN-264378	c 24	N83-10117 *	US-PATENT-APPL-SN-280152	c 54	N86-22112 *
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US-PATENT-APPL-SN-249542	c 28	N70-41576 *	US-PATENT-APPL-SN-264729	c 33	N70-34540 *	US-PATENT-APPL-SN-280390	c 37	N74-15128 *
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US-PATENT-APPL-SN-250661	c 23	N89-11814 *	US-PATENT-APPL-SN-266255	c 44	N83-27344 *	US-PATENT-APPL-SN-282129	c 24	N83-25789 *
US-PATENT-APPL-SN-250662	c 37	N91-14615 *	US-PATENT-APPL-SN-266256	c 24	N83-13171 *	US-PATENT-APPL-SN-282191	c 35	N83-29651 *
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US-PATENT-APPL-SN-251621	c 16	N73-32391 *	US-PATENT-APPL-SN-266928	c 26	N74-10521 *	US-PATENT-APPL-SN-284245	c 33	N74-17928 *
US-PATENT-APPL-SN-251752	c 24	N74-30001 *	US-PATENT-APPL-SN-266930	c 54	N74-12779 *	US-PATENT-APPL-SN-284265	c 14	N70-34799 *
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US-PATENT-APPL-SN-252615	c 54	N94-36840 *	US-PATENT-APPL-SN-267768	c 70	N74-21300 *	US-PATENT-APPL-SN-284314	c 33	N84-16454 *
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US-PATENT-APPL-SN-351929	c 33	N75-14957 *	US-PATENT-APPL-SN-364092	c 76	N83-35888 *	US-PATENT-APPL-SN-377892	c 33	N83-24763 *
US-PATENT-APPL-SN-351950	c 33	N75-27249 *	US-PATENT-APPL-SN-364093	c 37	N83-34323 *	US-PATENT-APPL-SN-378080	c 12	N71-24690 *
US-PATENT-APPL-SN-352381	c 20	N75-18310 *	US-PATENT-APPL-SN-364094	c 37	N84-28083 *	US-PATENT-APPL-SN-378126	c 44	N76-18643 *
US-PATENT-APPL-SN-352381	c 37	N76-14461 *	US-PATENT-APPL-SN-364097	c 71	N82-27086 #	US-PATENT-APPL-SN-378127	c 44	N76-18641 *
US-PATENT-APPL-SN-352382	c 60	N75-13539 *	US-PATENT-APPL-SN-364126	c 36	N84-22943 *	US-PATENT-APPL-SN-378533	c 37	N84-11497 *
US-PATENT-APPL-SN-352383	c 35	N75-16783 *	US-PATENT-APPL-SN-364743	c 37	N91-14608 *	US-PATENT-APPL-SN-378535	c 74	N84-23248 *
US-PATENT-APPL-SN-352400	c 26	N71-10607 *	US-PATENT-APPL-SN-364774	c 37	N91-14616 *	US-PATENT-APPL-SN-378548	c 54	N91-31803 #
US-PATENT-APPL-SN-352821	c 44	N84-28205 *	US-PATENT-APPL-SN-364867	c 09	N71-10673 *	US-PATENT-APPL-SN-379019	c 09	N75-12969 *
US-PATENT-APPL-SN-352827	c 35	N84-28015 *	US-PATENT-APPL-SN-365244	c 37	N78-17386 *	US-PATENT-APPL-SN-379049	c 31	N75-11311 *
US-PATENT-APPL-SN-352827	c 35	N85-21598 *	US-PATENT-APPL-SN-36531	c 07	N72-25174 *	US-PATENT-APPL-SN-379072	c 15	N71-16078 *
US-PATENT-APPL-SN-352831	c 35	N84-16523 *	US-PATENT-APPL-SN-36534	c 21	N73-14692 *	US-PATENT-APPL-SN-379417	c 02	N70-41863 *
US-PATENT-APPL-SN-353162	c 33	N75-26243 *	US-PATENT-APPL-SN-36554	c 35	N77-27367 *	US-PATENT-APPL-SN-379601	c 71	N85-30765 *
US-PATENT-APPL-SN-353411	c 37	N89-28846 #	US-PATENT-APPL-SN-365644	c 35	N74-26946 *	US-PATENT-APPL-SN-379602	c 44	N84-23018 *
US-PATENT-APPL-SN-353632	c 15	N71-13789 *	US-PATENT-APPL-SN-365950	c 27	N83-18908 *	US-PATENT-APPL-SN-379768	c 28	N71-10780 *
US-PATENT-APPL-SN-353634	c 15	N70-41829 *	US-PATENT-APPL-SN-366025	c 27	N84-22744 *	US-PATENT-APPL-SN-379771	c 33	N71-28852 *
US-PATENT-APPL-SN-353637	c 02	N70-34160 *	US-PATENT-APPL-SN-366103	c 76	N84-35112 #	US-PATENT-APPL-SN-380046	c 25	N76-29379 *
US-PATENT-APPL-SN-353644	c 07	N71-23098 *	US-PATENT-APPL-SN-366205	c 35	N91-14590 *	US-PATENT-APPL-SN-380630	c 37	N75-21631 *
US-PATENT-APPL-SN-353645	c 15	N71-15922 *	US-PATENT-APPL-SN-366226	c 10	N71-16057 *	US-PATENT-APPL-SN-380960	c 15	N70-41993 *
US-PATENT-APPL-SN-354060	c 74	N76-19935 *	US-PATENT-APPL-SN-366957	c 27	N90-10261 #	US-PATENT-APPL-SN-380965	c 10	N71-23033 *
US-PATENT-APPL-SN-354126	c 37	N82-22496 #	US-PATENT-APPL-SN-367132	c 32	N85-21427 *	US-PATENT-APPL-SN-381239	c 09	N91-21157 *
US-PATENT-APPL-SN-354182	c 10	N71-20841 *	US-PATENT-APPL-SN-367134	c 44	N83-34449 *	US-PATENT-APPL-SN-381240	c 27	N91-25296 *
US-PATENT-APPL-SN-354406	c 52	N76-14757 *	US-PATENT-APPL-SN-367136	c 35	N85-21596 *	US-PATENT-APPL-SN-381940	c 09	N71-20705 *
US-PATENT-APPL-SN-354407	c 33	N74-22865 *	US-PATENT-APPL-SN-367187	c 04	N84-14132 *	US-PATENT-APPL-SN-382261	c 35	N76-14430 *
US-PATENT-APPL-SN-354408	c 35	N75-19614 *	US-PATENT-APPL-SN-367268	c 05	N75-25914 *	US-PATENT-APPL-SN-382262	c 37	N74-21058 *
US-PATENT-APPL-SN-354611	c 25	N74-26947 *	US-PATENT-APPL-SN-367293	c 36	N75-19655 *	US-PATENT-APPL-SN-38262	c 28	N70-35422 #
US-PATENT-APPL-SN-354612	c 35	N75-30504 *	US-PATENT-APPL-SN-367294	c 76	N75-12810 *	US-PATENT-APPL-SN-382885	c 14	N91-27175 *
US-PATENT-APPL-SN-355126	c 17	N71-15644 *	US-PATENT-APPL-SN-367606	c 75	N75-13625 *	US-PATENT-APPL-SN-382976	c 15	N71-21179 *
US-PATENT-APPL-SN-355129	c 14	N70-41957 *	US-PATENT-APPL-SN-367606	c 75	N76-17951 *	US-PATENT-APPL-SN-383063	c 37	N84-12493 *
US-PATENT-APPL-SN-355130	c 15	N70-40354 *	US-PATENT-APPL-SN-368123	c 09	N71-10618 *	US-PATENT-APPL-SN-383068	c 44	N84-34792 *
US-PATENT-APPL-SN-355488	c 08	N71-19544 *	US-PATENT-APPL-SN-368187	c 54	N84-11758 *	US-PATENT-APPL-SN-383083	c 33	N84-16453 *
US-PATENT-APPL-SN-355554	c 24	N75-33181 *	US-PATENT-APPL-SN-368188	c 33	N84-33663 *	US-PATENT-APPL-SN-383086	c 36	N85-21639 *
US-PATENT-APPL-SN-355555	c 37	N75-19685 *	US-PATENT-APPL-SN-368189	c 18	N84-22605 *	US-PATENT-APPL-SN-383384	c 06	N84-27733 *
US-PATENT-APPL-SN-355664	c 31	N75-12161 *	US-PATENT-APPL-SN-368191	c 23	N72-22673 *	US-PATENT-APPL-SN-384010	c 10	N71-28859 *
US-PATENT-APPL-SN-355692	c 15	N70-41371 *	US-PATENT-APPL-SN-369171	c 36	N93-18287 *	US-PATENT-APPL-SN-384547	c 36	N85-29264 *
US-PATENT-APPL-SN-357126	c 35	N74-34857 *	US-PATENT-APPL-SN-369626	c 28	N72-23810 *	US-PATENT-APPL-SN-384773	c 15	N76-14158 *
US-PATENT-APPL-SN-357312	c 27	N76-16229 *	US-PATENT-APPL-SN-369334	c 21	N71-22880 *	US-PATENT-APPL-SN-384811	c 15	N71-10809 *
US-PATENT-APPL-SN-357334	c 03	N71-12258 *	US-PATENT-APPL-SN-369336	c 09	N71-10659 *	US-PATENT-APPL-SN-385013	c 35	N75-19613 *
US-PATENT-APPL-SN-357336	c 03	N71-12259 *	US-PATENT-APPL-SN-369337	c 15	N70-41811 *	US-PATENT-APPL-SN-385059	c 33	N77-21315 *
US-PATENT-APPL-SN-357337	c 15	N71-10782 *	US-PATENT-APPL-SN-369338	c 08				

US-PATENT-APPL-SN-385526	c 12	N71-16031 *	US-PATENT-APPL-SN-395895	c 36	N78-17366 *	US-PATENT-APPL-SN-411944	c 15	N70-41629 *
US-PATENT-APPL-SN-385527	c 31	N71-17729 *	US-PATENT-APPL-SN-396262	c 31	N91-14508 *	US-PATENT-APPL-SN-411945	c 18	N71-23047 *
US-PATENT-APPL-SN-385530	c 09	N71-10798 *	US-PATENT-APPL-SN-396263	c 35	N90-23712 *	US-PATENT-APPL-SN-411949	c 27	N71-15635 *
US-PATENT-APPL-SN-386172	c 24	N91-14430 *	US-PATENT-APPL-SN-396443	c 15	N71-15586 *	US-PATENT-APPL-SN-412039	c 06	N84-34443 *
US-PATENT-APPL-SN-386174	c 75	N90-10717 *	US-PATENT-APPL-SN-396444	c 10	N71-20782 *	US-PATENT-APPL-SN-412079	c 37	N75-13266 *
US-PATENT-APPL-SN-386175	c 35	N92-31790 *	US-PATENT-APPL-SN-396726	c 35	N91-15511 *	US-PATENT-APPL-SN-412080	c 36	N75-19653 *
US-PATENT-APPL-SN-386467	c 14	N70-40233 *	US-PATENT-APPL-SN-396726	c 35	N91-21495 *	US-PATENT-APPL-SN-412379	c 32	N77-10392 *
US-PATENT-APPL-SN-386789	c 35	N75-12271 *	US-PATENT-APPL-SN-397281	c 76	N83-34796 *	US-PATENT-APPL-SN-413101	c 07	N86-20389 *
US-PATENT-APPL-SN-386790	c 09	N75-12968 *	US-PATENT-APPL-SN-397476	c 34	N75-12222 *	US-PATENT-APPL-SN-413445	c 09	N72-29172 *
US-PATENT-APPL-SN-386793	c 35	N75-25124 *	US-PATENT-APPL-SN-397477	c 33	N75-19517 *	US-PATENT-APPL-SN-41346	c 15	N72-24522 *
US-PATENT-APPL-SN-386800	c 15	N71-21404 *	US-PATENT-APPL-SN-397478	c 52	N75-33640 *	US-PATENT-APPL-SN-41347	c 09	N72-25256 *
US-PATENT-APPL-SN-387094	c 37	N77-19457 *	US-PATENT-APPL-SN-397555	c 08	N72-21188 *	US-PATENT-APPL-SN-41348	c 09	N72-23173 *
US-PATENT-APPL-SN-387095	c 37	N75-33395 *	US-PATENT-APPL-SN-397665	c 10	N70-41991 *	US-PATENT-APPL-SN-413661	c 15	N71-23024 *
US-PATENT-APPL-SN-387266	c 35	N75-27328 *	US-PATENT-APPL-SN-398131	c 05	N70-41297 *	US-PATENT-APPL-SN-413662	c 09	N70-41929 *
US-PATENT-APPL-SN-387332	c 15	N70-33226 *	US-PATENT-APPL-SN-398132	c 15	N70-41808 *	US-PATENT-APPL-SN-414042	c 35	N79-17192 *
US-PATENT-APPL-SN-387342	c 37	N76-18457 *	US-PATENT-APPL-SN-398885	c 27	N76-15310 *	US-PATENT-APPL-SN-414043	c 27	N76-32315 *
US-PATENT-APPL-SN-387646	c 37	N85-30336 *	US-PATENT-APPL-SN-398886	c 07	N75-24736 *	US-PATENT-APPL-SN-41404	c 03	N73-20039 *
US-PATENT-APPL-SN-387647	c 33	N85-34333 *	US-PATENT-APPL-SN-398901	c 37	N75-25186 *	US-PATENT-APPL-SN-414106	c 54	N84-16803 *
US-PATENT-APPL-SN-387648	c 37	N85-21650 *	US-PATENT-APPL-SN-399074	c 33	N88-14271 *	US-PATENT-APPL-SN-414107	c 35	N84-22932 *
US-PATENT-APPL-SN-387649	c 09	N85-19990 *	US-PATENT-APPL-SN-399419	c 21	N71-23289 *	US-PATENT-APPL-SN-414237	c 35	N85-30282 *
US-PATENT-APPL-SN-387728	c 37	N84-28084 *	US-PATENT-APPL-SN-400467	c 33	N75-30431 *	US-PATENT-APPL-SN-41430	c 10	N72-20221 *
US-PATENT-APPL-SN-387928	c 76	N90-17456 *	US-PATENT-APPL-SN-400613	c 15	N71-21528 *	US-PATENT-APPL-SN-41431	c 37	N77-27400 *
US-PATENT-APPL-SN-387928	c 76	N92-22040 *	US-PATENT-APPL-SN-400617	c 31	N71-17629 *	US-PATENT-APPL-SN-414482	c 10	N71-10578 *
US-PATENT-APPL-SN-387928	c 76	N92-22041 *	US-PATENT-APPL-SN-400857	c 31	N79-21225 *	US-PATENT-APPL-SN-41455	c 02	N70-33255 *
US-PATENT-APPL-SN-388023	c 10	N70-41964 *	US-PATENT-APPL-SN-401224	c 38	N78-17396 *	US-PATENT-APPL-SN-414811	c 32	N92-22033 *
US-PATENT-APPL-SN-388024	c 32	N71-17609 *	US-PATENT-APPL-SN-401225	c 38	N78-17395 *	US-PATENT-APPL-SN-414812	c 35	N90-17104 *
US-PATENT-APPL-SN-38814	c 15	N72-11385 *	US-PATENT-APPL-SN-401282	c 18	N85-29991 *	US-PATENT-APPL-SN-414815	c 33	N91-26438 *
US-PATENT-APPL-SN-38816	c 70	N74-13436 *	US-PATENT-APPL-SN-401288	c 37	N84-28081 *	US-PATENT-APPL-SN-414816	c 37	N91-14617 *
US-PATENT-APPL-SN-38816	c 74	N78-15879 *	US-PATENT-APPL-SN-401466	c 09	N75-24758 *	US-PATENT-APPL-SN-414820	c 33	N94-23820 *
US-PATENT-APPL-SN-388264	c 37	N91-14614 *	US-PATENT-APPL-SN-401919	c 24	N76-24363 *	US-PATENT-APPL-SN-415486	c 37	N75-19683 *
US-PATENT-APPL-SN-388966	c 31	N70-41855 *	US-PATENT-APPL-SN-401920	c 37	N75-25185 *	US-PATENT-APPL-SN-415878	c 08	N86-27288 *
US-PATENT-APPL-SN-388967	c 10	N71-23271 *	US-PATENT-APPL-SN-401921	c 24	N76-14203 *	US-PATENT-APPL-SN-415879	c 37	N85-21652 *
US-PATENT-APPL-SN-389916	c 18	N75-27041 *	US-PATENT-APPL-SN-402205	c 33	N85-30187 *	US-PATENT-APPL-SN-415880	c 27	N84-27884 *
US-PATENT-APPL-SN-389929	c 33	N75-25040 *	US-PATENT-APPL-SN-402365	c 31	N71-17730 *	US-PATENT-APPL-SN-415960	c 37	N85-20337 *
US-PATENT-APPL-SN-390049	c 37	N76-16446 *	US-PATENT-APPL-SN-402865	c 33	N74-32660 *	US-PATENT-APPL-SN-416135	c 32	N75-15854 *
US-PATENT-APPL-SN-390049	c 44	N76-29700 *	US-PATENT-APPL-SN-402867	c 35	N75-33367 *	US-PATENT-APPL-SN-416938	c 11	N71-10746 *
US-PATENT-APPL-SN-390250	c 21	N70-41856 *	US-PATENT-APPL-SN-402868	c 35	N75-19612 *	US-PATENT-APPL-SN-416940	c 21	N71-21708 *
US-PATENT-APPL-SN-390251	c 07	N71-23026 *	US-PATENT-APPL-SN-402978	c 10	N71-23084 *	US-PATENT-APPL-SN-416941	c 31	N70-34159 *
US-PATENT-APPL-SN-390466	c 24	N75-13032 *	US-PATENT-APPL-SN-403154	c 37	N77-22480 *	US-PATENT-APPL-SN-416943	c 14	N71-23269 *
US-PATENT-APPL-SN-390468	c 36	N75-19652 *	US-PATENT-APPL-SN-403371	c 27	N82-33523 *	US-PATENT-APPL-SN-416945	c 10	N71-23543 *
US-PATENT-APPL-SN-391343	c 05	N69-21473 *	US-PATENT-APPL-SN-403378	c 26	N84-33555 *	US-PATENT-APPL-SN-416946	c 28	N71-15563 *
US-PATENT-APPL-SN-391692	c 23	N91-14419 *	US-PATENT-APPL-SN-403694	c 54	N75-12616 *	US-PATENT-APPL-SN-417253	c 11	N71-23042 *
US-PATENT-APPL-SN-39185	c 16	N72-25485 *	US-PATENT-APPL-SN-403695	c 35	N77-20399 *	US-PATENT-APPL-SN-418137	c 16	N84-22601 *
US-PATENT-APPL-SN-391896	c 43	N91-32546 *	US-PATENT-APPL-SN-403847	c 31	N83-35176 *	US-PATENT-APPL-SN-418138	c 16	N84-27784 *
US-PATENT-APPL-SN-391911	c 54	N91-14724 *	US-PATENT-APPL-SN-403848	c 33	N85-21493 *	US-PATENT-APPL-SN-418139	c 24	N84-27829 *
US-PATENT-APPL-SN-392092	c 51	N84-28361 *	US-PATENT-APPL-SN-403849	c 35	N87-21304 *	US-PATENT-APPL-SN-418320	c 03	N91-31113 *
US-PATENT-APPL-SN-392093	c 33	N88-23941 *	US-PATENT-APPL-SN-403959	c 14	N70-41894 *	US-PATENT-APPL-SN-418362	c 14	N71-20741 *
US-PATENT-APPL-SN-392094	c 37	N85-29283 *	US-PATENT-APPL-SN-403960	c 14	N70-41366 *	US-PATENT-APPL-SN-418372	c 27	N91-13562 *
US-PATENT-APPL-SN-392096	c 02	N84-11136 *	US-PATENT-APPL-SN-404212	c 14	N73-32324 *	US-PATENT-APPL-SN-418373	c 33	N91-27479 *
US-PATENT-APPL-SN-392103	c 44	N84-28204 *	US-PATENT-APPL-SN-404288	c 33	N91-14536 *	US-PATENT-APPL-SN-418374	c 35	N91-14591 *
US-PATENT-APPL-SN-392104	c 37	N85-20338 *	US-PATENT-APPL-SN-404289	c 26	N91-14462 *	US-PATENT-APPL-SN-418611	c 27	N91-27372 *
US-PATENT-APPL-SN-392165	c 71	N91-27913 *	US-PATENT-APPL-SN-404290	c 34	N91-14563 *	US-PATENT-APPL-SN-418612	c 33	N91-14550 *
US-PATENT-APPL-SN-392166	c 24	N92-18561 *	US-PATENT-APPL-SN-404291	c 74	N91-21871 *	US-PATENT-APPL-SN-418931	c 05	N70-42000 *
US-PATENT-APPL-SN-392174	c 54	N91-26747 *	US-PATENT-APPL-SN-404292	c 37	N91-14609 *	US-PATENT-APPL-SN-418933	c 15	N71-23022 *
US-PATENT-APPL-SN-392228	c 54	N91-14723 *	US-PATENT-APPL-SN-404293	c 32	N90-16104 *	US-PATENT-APPL-SN-419319	c 34	N76-17317 *
US-PATENT-APPL-SN-392235	c 37	N91-21542 *	US-PATENT-APPL-SN-404809	c 27	N84-27885 *	US-PATENT-APPL-SN-419554	c 23	N91-25185 *
US-PATENT-APPL-SN-392239	c 33	N91-14552 *	US-PATENT-APPL-SN-404809	c 25	N85-28982 *	US-PATENT-APPL-SN-419747	c 17	N76-21250 *
US-PATENT-APPL-SN-392823	c 25	N74-33378 *	US-PATENT-APPL-SN-405154	c 37	N91-21539 *	US-PATENT-APPL-SN-419748	c 27	N76-14264 *
US-PATENT-APPL-SN-392944	c 76	N85-29800 *	US-PATENT-APPL-SN-405168	c 70	N91-21824 *	US-PATENT-APPL-SN-419831	c 35	N75-21582 *
US-PATENT-APPL-SN-392965	c 18	N71-22998 *	US-PATENT-APPL-SN-405169	c 33	N91-14538 *	US-PATENT-APPL-SN-419831	c 35	N77-17426 *
US-PATENT-APPL-SN-392969	c 09	N71-23573 *	US-PATENT-APPL-SN-405341	c 37	N76-15460 *	US-PATENT-APPL-SN-42022	c 15	N70-35409 *
US-PATENT-APPL-SN-392970	c 32	N70-41367 *	US-PATENT-APPL-SN-405342	c 35	N75-19615 *	US-PATENT-APPL-SN-420245	c 08	N71-22749 *
US-PATENT-APPL-SN-392973	c 07	N71-23001 *	US-PATENT-APPL-SN-405346	c 37	N75-30582 *	US-PATENT-APPL-SN-420250	c 15	N71-23051 *
US-PATENT-APPL-SN-392992	c 15	N71-23052 *	US-PATENT-APPL-SN-405629	c 09	N71-10677 *	US-PATENT-APPL-SN-420424	c 34	N75-26282 *
US-PATENT-APPL-SN-39342	c 09	N72-25252 *	US-PATENT-APPL-SN-405630	c 14	N71-10616 *	US-PATENT-APPL-SN-420466	c 14	N71-23092 *
US-PATENT-APPL-SN-39343	c 34	N74-18552 *	US-PATENT-APPL-SN-405632	c 21	N71-15582 *	US-PATENT-APPL-SN-420813	c 36	N75-32441 *
US-PATENT-APPL-SN-39344	c 14	N72-25409 *	US-PATENT-APPL-SN-406097	c 14	N71-21088 *	US-PATENT-APPL-SN-42088	c 34	N78-17336 *
US-PATENT-APPL-SN-393451	c 02	N70-42016 *	US-PATENT-APPL-SN-406296	c 25	N79-10163 *	US-PATENT-APPL-SN-421702	c 44	N75-32581 *
US-PATENT-APPL-SN-393456	c 33	N83-16633 *	US-PATENT-APPL-SN-406715	c 35	N75-15014 *	US-PATENT-APPL-SN-421702	c 44	N76-23675 *
US-PATENT-APPL-SN-393461	c 31	N71-17691 *	US-PATENT-APPL-SN-406820	c 74	N86-32266 *	US-PATENT-APPL-SN-422092	c 14	N71-22989 *
US-PATENT-APPL-SN-393464	c 23	N71-21821 *	US-PATENT-APPL-SN-407240	c 27	N83-34041 *	US-PATENT-APPL-SN-422095	c 07	N71-10676 *
US-PATENT-APPL-SN-393523	c 12	N75-24774 *	US-PATENT-APPL-SN-407240	c 27	N85-20124 *	US-PATENT-APPL-SN-422096	c 03	N71-29004 *
US-PATENT-APPL-SN-393524	c 60	N76-21914 *	US-PATENT-APPL-SN-407323	c 32	N75-21485 *	US-PATENT-APPL-SN-422097	c 11	N71-21481 *
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US-PATENT-CLASS-164-284	c 31	N90-21216 *	US-PATENT-CLASS-165-1	c 09	N70-41717 *	US-PATENT-CLASS-166-259	c 43	N78-14452 *
US-PATENT-CLASS-164-331.12	c 27	N83-34041 *	US-PATENT-CLASS-165-1	c 34	N75-12222 *	US-PATENT-CLASS-166-267	c 25	N82-23282 *
US-PATENT-CLASS-164-338.1	c 26	N91-14462 *	US-PATENT-CLASS-165-1	c 34	N85-29180 *	US-PATENT-CLASS-166-303	c 25	N82-23282 *
US-PATENT-CLASS-164-60	c 24	N77-27187 *	US-PATENT-CLASS-165-1	c 34	N87-22950 *	US-PATENT-CLASS-166-343	c 18	N90-20126 *
US-PATENT-CLASS-165-DIG.6	c 34	N84-22903 *	US-PATENT-CLASS-165-1	c 34	N88-23958 *	US-PATENT-CLASS-166-63	c 46	N79-22679 *
US-PATENT-CLASS-165-104.14	c 05	N81-26114 *	US-PATENT-CLASS-165-1	c 31	N91-27385 *	US-PATENT-CLASS-166-77	c 43	N81-26509 *
US-PATENT-CLASS-165-104.14	c 34	N85-29179 *	US-PATENT-CLASS-165-1	c 54	N92-21589 *	US-PATENT-CLASS-169-28	c 12	N72-21310 *
US-PATENT-CLASS-165-104.14	c 34	N86-27593 *	US-PATENT-CLASS-165-20	c 03	N72-28025 *	US-PATENT-CLASS-169-36	c 12	N72-21310 *
US-PATENT-CLASS-165-104.14	c 34	N87-22950 *	US-PATENT-CLASS-165-20	c 35	N91-21496 *	US-PATENT-CLASS-169-47	c 25	N83-36118 *
US-PATENT-CLASS-165-104.14	c 34	N88-23958 *	US-PATENT-CLASS-165-2	c 33	N71-24876 *	US-PATENT-CLASS-169-62	c 31	N81-14137 *
US-PATENT-CLASS-165-104.14	c 34	N89-14392 *	US-PATENT-CLASS-165-2	c 35	N74-15093 *	US-PATENT-CLASS-169-70	c 31	N81-14137 *
US-PATENT-CLASS-165-104.14	c 34	N91-21473 *	US-PATENT-CLASS-165-2	c 44	N77-32581 *	US-PATENT-CLASS-173-131	c 15	N73-13463 *
US-PATENT-CLASS-165-104.14	c 34	N92-29125 *	US-PATENT-CLASS-165-2	c 44	N78-17469 *	US-PATENT-CLASS-173-132	c 37	N76-18454 *
US-PATENT-CLASS-165-104.17	c 34	N94-20371 *	US-PATENT-CLASS-165-2	c 51	N79-10694 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-26752 *
US-PATENT-CLASS-165-104.22	c 34	N92-29125 *	US-PATENT-CLASS-165-2	c 27	N83-36220 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-32571 *
US-PATENT-CLASS-165-104.25	c 34	N87-22950 *	US-PATENT-CLASS-165-30	c 51	N79-10694 *	US-PATENT-CLASS-174-DIG.8	c 33	N74-22865 *
US-PATENT-CLASS-165-104.26	c 74	N83-19596 *	US-PATENT-CLASS-165-30	c 31	N79-17029 *	US-PATENT-CLASS-174-106R	c 09	N72-22198 *
US-PATENT-CLASS-165-104.26	c 34	N83-35307 *	US-PATENT-CLASS-165-30	c 35	N86-20750 *	US-PATENT-CLASS-174-110.3	c 14	N71-27186 *
US-PATENT-CLASS-165-104.26	c 34	N85-21568 *	US-PATENT-CLASS-165-32	c 31	N73-30829 *	US-PATENT-CLASS-174-111	c 33	N74-27683 *
US-PATENT-CLASS-165-104.26	c 34	N85-29180 *	US-PATENT-CLASS-165-32	c 33	N73-32818 *	US-PATENT-CLASS-174-115	c 09	N70-38201 *
US-PATENT-CLASS-165-104.26	c 34	N86-27593 *	US-PATENT-CLASS-165-32	c 34	N78-17337 *	US-PATENT-CLASS-174-117FF	c 09	N72-22198 *
US-PATENT-CLASS-165-104.26	c 34	N87-22950 *	US-PATENT-CLASS-165-32	c 34	N79-31523 *	US-PATENT-CLASS-174-126CP	c 26	N73-32571 *
US-PATENT-CLASS-165-104.26	c 34	N88-29133 *	US-PATENT-CLASS-165-32	c 44	N80-20810 *	US-PATENT-CLASS-174-142	c 33	N80-18286 *
US-PATENT-CLASS-165-104.26	c 34	N89-14392 *	US-PATENT-CLASS-165-32	c 33	N82-24419 *	US-PATENT-CLASS-174-145	c 33	N76-16332 *
US-PATENT-CLASS-165-104.26	c 27	N90-23541 *	US-PATENT-CLASS-165-32	c 34	N83-28356 *	US-PATENT-CLASS-174-148	c 33	N76-16332 *
US-PATENT-CLASS-165-104.26	c 31	N90-23587 *	US-PATENT-CLASS-165-32	c 34	N83-35307 *	US-PATENT-CLASS-174-15CA	c 31	N79-17029 *
US-PATENT-CLASS-165-104.31	c 31	N91-15424 *	US-PATENT-CLASS-165-32	c 34	N84-14461 *	US-PATENT-CLASS-174-15C	c 33	N74-27683 *
US-PATENT-CLASS-165-104.31	c 34	N92-28752 *	US-PATENT-CLASS-165-32	c 34	N85-29179 *	US-PATENT-CLASS-174-16.3	c 24	N93-29614 *
US-PATENT-CLASS-165-104.31	c 34	N94-20495 *	US-PATENT-CLASS-165-32	c 34	N90-21999 *	US-PATENT-CLASS-174-18	c 09	N69-21542 *
US-PATENT-CLASS-165-104.34	c 34	N92-28752 *	US-PATENT-CLASS-165-34	c 34	N87-22950 *	US-PATENT-CLASS-174-28	c 07	N71-27191 *
US-PATENT-CLASS-165-104	c 33	N71-25353 *	US-PATENT-CLASS-165-3	c 03	N72-28025 *	US-PATENT-CLASS-174-28	c 33	N74-27683 *
US-PATENT-CLASS-165-104	c 34	N90-20323 *	US-PATENT-CLASS-165-41	c 34	N84-14461 *	US-PATENT-CLASS-174-35	c 07	N71-19436 *
US-PATENT-CLASS-165-105	c 09	N71-24807 *	US-PATENT-CLASS-165-41	c 34	N86-27593 *	US-PATENT-CLASS-174-36	c 09	N72-22198 *
US-PATENT-CLASS-165-105	c 33	N71-25353 *	US-PATENT-CLASS-165-41	c 34	N88-23958 *	US-PATENT-CLASS-174-52-PE	c 33	N88-23941 *
US-PATENT-CLASS-165-105	c 33	N72-17948 *	US-PATENT-CLASS-165-41	c 35	N89-12048 *	US-PATENT-CLASS-174-52-F	c 33	N88-23941 *
US-PATENT-CLASS-165-105	c 31	N73-30829 *	US-PATENT-CLASS-165-41	c 34	N90-20323 *	US-PATENT-CLASS-174-52-S	c 33	N88-23941 *
US-PATENT-CLASS-165-105	c 28	N73-32606 *	US-PATENT-CLASS-165-41	c 27	N90-23541 *	US-PATENT-CLASS-174-52S	c 15	N73-14469 *
US-PATENT-CLASS-165-105	c 34	N74-18552 *	US-PATENT-CLASS-165-41	c 31	N90-23587 *	US-PATENT-CLASS-174-68.5	c 15	N70-41960 *
US-PATENT-CLASS-165-105	c 34	N75-12222 *	US-PATENT-CLASS-165-41	c 31	N91-15424 *	US-PATENT-CLASS-174-69	c 33	N74-22865 *
US-PATENT-CLASS-165-105	c 44	N75-32581 *	US-PATENT-CLASS-165-41	c 54	N92-21589 *	US-PATENT-CLASS-174-70R	c 33	N74-22865 *
US-PATENT-CLASS-165-105	c 44	N76-16612 *	US-PATENT-CLASS-165-41	c 34	N92-28752 *	US-PATENT-CLASS-174-72	c 03	N69-21539 *
US-PATENT-CLASS-165-105	c 34	N76-17317 *	US-PATENT-CLASS-165-41	c 34	N92-29125 *	US-PATENT-CLASS-174-73R	c 33	N80-18286 *
US-PATENT-CLASS-165-105	c 34	N76-27515 *	US-PATENT-CLASS-165-41	c 37	N94-20127 *	US-PATENT-CLASS-174-84	c 15	N72-17455 *
US-PATENT-CLASS-165-105	c 34	N77-32413 *	US-PATENT-CLASS-165-44	c 15	N71-26611 *	US-PATENT-CLASS-175-1	c 46	N79-22679 *
US-PATENT-CLASS-165-105	c 25	N78-10224 *	US-PATENT-CLASS-165-46	c 05	N71-19439 *	US-PATENT-CLASS-175-26	c 15	N73-32362 *
US-PATENT-CLASS-165-105	c 34	N78-17336 *	US-PATENT-CLASS-165-46	c 05	N71-24147 *	US-PATENT-CLASS-175-310	c 15	N70-42034 *
US-PATENT-CLASS-165-105	c 34	N78-17337 *	US-PATENT-CLASS-165-46	c 05	N73-20137 *	US-PATENT-CLASS-175-323	c 14	N69-21923 *
US-PATENT-CLASS-165-105	c 44	N79-18443 *	US-PATENT-CLASS-165-46	c 05	N73-26071 *	US-PATENT-CLASS-175-45	c 35	N84-33768 *
US-PATENT-CLASS-165-105	c 37	N79-28549 *	US-PATENT-CLASS-165-46	c 54	N82-29002 *	US-PATENT-CLASS-175-78	c 46	N80-10709 *
US-PATENT-CLASS-165-105	c 34	N79-31523 *	US-PATENT-CLASS-165-46	c 34	N90-21999 *	US-PATENT-CLASS-176-11	c 24	N72-33681 *
US-PATENT-CLASS-165-105	c 35	N81-14287 *	US-PATENT-CLASS-165-47	c 33	N71-29052 *	US-PATENT-CLASS-176-11	c 25	N76-27383 *
US-PATENT-CLASS-165-106	c 33	N73-32818 *	US-PATENT-CLASS-165-47	c 31	N73-30829 *	US-PATENT-CLASS-176-11	c 25	N76-29379 *
US-PATENT-CLASS-165-106	c 34	N76-17317 *	US-PATENT-CLASS-165-47	c 34	N75-12222 *	US-PATENT-CLASS-176-11	c 25	N78-27226 *
US-PATENT-CLASS-165-107	c 09	N71-24807 *	US-PATENT-CLASS-165-48.2	c 54	N92-21589 *	US-PATENT-CLASS-176-14	c 25	N76-29379 *
US-PATENT-CLASS-165-107	c 44	N77-32581 *	US-PATENT-CLASS-165-48R	c 35	N85-29214 *	US-PATENT-CLASS-176-169	c 22	N73-32528 *
US-PATENT-CLASS-165-109.1	c 34	N92-28752 *	US-PATENT-CLASS-165-4	c 34	N92-28752 *	US-PATENT-CLASS-176-16	c 25	N76-27383 *
US-PATENT-CLASS-165-109.1	c 34	N94-20495 *	US-PATENT-CLASS-165-58	c 27	N83-36220 *	US-PATENT-CLASS-176-16	c 25	N76-29379 *
US-PATENT-CLASS-165-109	c 35	N74-15093 *	US-PATENT-CLASS-165-61	c 34	N83-34221 *	US-PATENT-CLASS-176-16	c 25	N78-27226 *
US-PATENT-CLASS-165-10	c 44	N76-31667 *	US-PATENT-CLASS-165-61	c 35	N85-29214 *	US-PATENT-CLASS-176-22	c 73	N78-28913 *
US-PATENT-CLASS-165-10	c 34	N94-20371 *	US-PATENT-CLASS-165-61	c 35	N86-20750 *	US-PATENT-CLASS-176-33	c 73	N78-28913 *
US-PATENT-CLASS-165-110	c 77	N75-20139 *	US-PATENT-CLASS-165-61	c 31	N89-12785 *	US-PATENT-CLASS-176-39	c 73	N78-19920 *
US-PATENT-CLASS-165-110	c 34	N92-28752 *	US-PATENT-CLASS-165-64	c 35	N85-29214 *	US-PATENT-CLASS-176-39	c 73	N78-28913 *
US-PATENT-CLASS-165-110	c 34	N94-20495 *	US-PATENT-CLASS-165-65	c 35	N86-20750 *	US-PATENT-CLASS-176-3	c 75	N75-13625 *
US-PATENT-CLASS-165-111	c 77	N75-20139 *	US-PATENT-CLASS-165-76	c 34	N83-28356 *	US-PATENT-CLASS-176-45	c 22	N71-28759 *
US-PATENT-CLASS-165-12	c 33	N71-24276 *	US-PATENT-CLASS-165-76	c 37	N86-32736 *	US-PATENT-CLASS-176-86G	c 22	N72-20597 *
US-PATENT-CLASS-165-12	c 34	N83-34221 *	US-PATENT-CLASS-165-78	c 34	N90-21999 *	US-PATENT-CLASS-177-147	c 35	N85-20294 *
US-PATENT-CLASS-165-133	c 33	N71-16277 *	US-PATENT-CLASS-165-78	c 34	N94-20371 *	US-PATENT-CLASS-177-1	c 35	N77-19385 *
US-PATENT-CLASS-165-133	c 33	N71-25353 *	US-PATENT-CLASS-165-80E	c 34	N83-34221 *	US-PATENT-CLASS-177-200	c 35	N74-26945 *
US-PATENT-CLASS-165-133	c 33	N72-20915 *	US-PATENT-CLASS-165-81	c 34	N88-29132 *	US-PATENT-CLASS-177-208	c 35	N77-19385 *
US-PATENT-CLASS-165-133	c 44	N76-23675 *	US-PATENT-CLASS-165-81	c 25	N90-11824 *	US-PATENT-CLASS-177-210	c 14	N71-10773 *
US-PATENT-CLASS-165-133	c 34	N90-20323 *	US-PATENT-CLASS-165-83	c 25	N90-11824 *	US-PATENT-CLASS-177-211	c 35	N74-26945 *
US-PATENT-CLASS-165-134R	c 74	N83-19596 *	US-PATENT-CLASS-165-86	c 15	N71-26611 *	US-PATENT-CLASS-177-246	c 35	N74-26945 *
US-PATENT-CLASS-165-134	c 34	N78-17336 *	US-PATENT-CLASS-165-86	c 33	N79-20406 *	US-PATENT-CLASS-177-260	c 35	N85-20294 *
US-PATENT-CLASS-165-135	c 34	N84-22903 *	US-PATENT-CLASS-165-86	c 34	N91-21473 *	US-PATENT-CLASS-178-DIG.12	c 07	N72-12081 *
US-PATENT-CLASS-165-138	c 09	N71-24807 *	US-PATENT-CLASS-165-86	c 54	N92-21589 *	US-PATENT-CLASS-178-DIG.12	c 32	N75-21485 *
US-PATENT-CLASS-165-13	c 34	N88-23958 *	US-PATENT-CLASS-165-903	c 34	N94-20495 *	US-PATENT-CLASS-178-DIG.1	c 36	N74-20009 *
US-PATENT-CLASS-165-141	c 28	N73-32606 *	US-PATENT-CLASS-165-904	c 35	N89-12048 *	US-PATENT-CLASS-178-DIG.1	c 33	N75-30431 *
US-PATENT-CLASS-165-146	c 34	N79-13289 *	US-PATENT-CLASS-165-904	c 31	N91-15424 *	US-PATENT-CLASS-178-DIG.1	c 45	N76-17656 *
US-PATENT-CLASS-165-155	c 33	N72-20915 *	US-PATENT-CLASS-165-904	c 54	N92-21589 *	US-PATENT-CLASS-178-DIG.20	c 18	N76-14186 *
US-PATENT-CLASS-165-156	c 25	N90-11824 *	US-PATENT-CLASS-165-904	c 37	N94-20127 *	US-PATENT-CLASS-178-DIG.20	c 23	N72-27728 *
US-PATENT-CLASS-165-158	c 33	N72-20915 *	US-PATENT-CLASS-165-905	c 34	N88-29133 *	US-PATENT-CLASS-178-DIG.20	c 35	N75-19613 *
US-PATENT-CLASS-165-161	c 33	N72-20915 *	US-PATENT-CLASS-165-905	c 34	N90-20323 *	US-PATENT-CLASS-178-DIG.21	c 16	N72-13437 *
US-PATENT-CLASS-165-164	c 34	N77-10463 *	US-PATENT-CLASS-165-905	c 27	N90-23541 *	US-PATENT-CLASS-178-DIG.23	c 07	N73-30115 *
US-PATENT-CLASS-165-166	c 54	N77-32722 *	US-PATENT-CLASS-165-913	c 34	N94-20495 *	US-PATENT-CLASS-178-DIG.25	c 74	N75-25706 *
US-PATENT-CLASS-165-169	c 34	N79-13288 *	US-PATENT-CLASS-165-96	c 33	N70-36847 *	US-PATENT-CLASS-178-DIG.28	c 08	N72-22164 *
US-PATENT-CLASS-165-169	c 34	N79-13289 *	US-PATENT-CLASS-165-96	c 33	N71-22890 *	US-PATENT-CLASS-178-DIG.29	c 35	N75-25123 *
US-PATENT-CLASS-165-16	c 31	N80-32593 *	US-PATENT-CLASS-165-96	c 31	N73-30829 *	US-PATENT-CLASS-178-DIG.32	c 71	N74-21014 *
US-PATENT-CLASS-165-170	c 34	N77-10463 *	US-PATENT-CLASS-165-96	c 33	N73-32818 *	US-PATENT-CLASS-178-DIG.35	c 09	N76-24280 *

US-PATENT-CLASS-178-DIG.36	c 08	N72-22164 *	US-PATENT-CLASS-179-100.2A	c 21	N73-13644 *	US-PATENT-CLASS-181-222	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.6	c 10	N73-13235 *	US-PATENT-CLASS-179-100.2A	c 32	N74-27612 *	US-PATENT-CLASS-181-286	c 24	N90-21822 *
US-PATENT-CLASS-178-DIG.8	c 14	N72-25412 *	US-PATENT-CLASS-179-100.2B	c 32	N74-27612 *	US-PATENT-CLASS-181-286	c 71	N91-27913 *
US-PATENT-CLASS-178-DIG.8	c 45	N76-17656 *	US-PATENT-CLASS-179-100.2CH	c 36	N74-13205 *	US-PATENT-CLASS-181-290	c 24	N90-21822 *
US-PATENT-CLASS-178-15	c 33	N75-19517 *	US-PATENT-CLASS-179-100.2CH	c 35	N78-29421 *	US-PATENT-CLASS-181-290	c 71	N91-27913 *
US-PATENT-CLASS-178-18	c 10	N73-32143 *	US-PATENT-CLASS-179-100.2CH	c 35	N79-16246 *	US-PATENT-CLASS-181-293	c 71	N79-14871 *
US-PATENT-CLASS-178-22.16	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2C	c 35	N77-21392 *	US-PATENT-CLASS-181-295	c 71	N91-27913 *
US-PATENT-CLASS-178-22.17	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2K	c 07	N72-21119 *	US-PATENT-CLASS-181-33C	c 07	N74-32418 *
US-PATENT-CLASS-178-5.2R	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 35	N74-11283 *	US-PATENT-CLASS-181-33F	c 07	N74-32418 *
US-PATENT-CLASS-178-5.2R	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2T	c 35	N74-11283 *	US-PATENT-CLASS-181-33HB	c 07	N74-27490 *
US-PATENT-CLASS-178-5.4	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2	c 09	N69-24329 *	US-PATENT-CLASS-181-33HC	c 07	N74-33218 *
US-PATENT-CLASS-178-5.8R	c 71	N74-21014 *	US-PATENT-CLASS-179-100.2	c 09	N71-25866 *	US-PATENT-CLASS-181-33HC	c 07	N76-18117 *
US-PATENT-CLASS-178-5.8R	c 08	N72-18184 *	US-PATENT-CLASS-179-100.2	c 08	N71-27210 *	US-PATENT-CLASS-181-33H	c 07	N74-32418 *
US-PATENT-CLASS-178-5.8R	c 08	N72-25208 *	US-PATENT-CLASS-179-100.2	c 08	N71-27255 *	US-PATENT-CLASS-181-33L	c 07	N74-32418 *
US-PATENT-CLASS-178-5.8R	c 08	N72-22162 *	US-PATENT-CLASS-179-100.2CA	c 09	N72-11224 *	US-PATENT-CLASS-181-42	c 07	N74-32418 *
US-PATENT-CLASS-178-5.8R	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 09	N72-11224 *	US-PATENT-CLASS-181-43	c 07	N74-15453 *
US-PATENT-CLASS-178-5.8R	c 09	N71-28618 *	US-PATENT-CLASS-179-107R	c 33	N78-10375 *	US-PATENT-CLASS-181-52	c 28	N70-41582 *
US-PATENT-CLASS-178-5.8R	c 32	N75-21486 *	US-PATENT-CLASS-179-15.55R	c 08	N72-11171 *	US-PATENT-CLASS-182-103	c 18	N89-12621 *
US-PATENT-CLASS-178-5.8R	c 32	N80-18252 *	US-PATENT-CLASS-179-15.55R	c 08	N72-33172 *	US-PATENT-CLASS-182-10	c 15	N71-27067 *
US-PATENT-CLASS-178-5.8R	c 23	N72-27728 *	US-PATENT-CLASS-179-15AN	c 07	N73-16121 *	US-PATENT-CLASS-182-129	c 54	N92-16559 *
US-PATENT-CLASS-178-6.6DD	c 07	N73-30115 *	US-PATENT-CLASS-179-15AT	c 32	N74-30524 *	US-PATENT-CLASS-182-134	c 54	N92-16559 *
US-PATENT-CLASS-178-6.6DD	c 35	N74-11283 *	US-PATENT-CLASS-179-15A	c 08	N72-22162 *	US-PATENT-CLASS-182-141	c 54	N92-16559 *
US-PATENT-CLASS-178-6.6	c 07	N71-11300 *	US-PATENT-CLASS-179-15A	c 07	N73-26118 *	US-PATENT-CLASS-182-152	c 31	N87-25492 *
US-PATENT-CLASS-178-6.6	c 07	N71-26102 *	US-PATENT-CLASS-179-15BA	c 60	N77-12721 *	US-PATENT-CLASS-182-178	c 39	N76-31562 *
US-PATENT-CLASS-178-6.7R	c 35	N74-15831 *	US-PATENT-CLASS-179-15BA	c 32	N80-18252 *	US-PATENT-CLASS-182-191	c 05	N71-11199 *
US-PATENT-CLASS-178-6.7R	c 07	N72-17109 *	US-PATENT-CLASS-179-15BC	c 08	N72-25208 *	US-PATENT-CLASS-182-223	c 54	N87-29118 *
US-PATENT-CLASS-178-6.8	c 08	N72-22164 *	US-PATENT-CLASS-179-15BC	c 07	N73-16121 *	US-PATENT-CLASS-182-2	c 54	N92-16559 *
US-PATENT-CLASS-178-6.8	c 14	N72-25412 *	US-PATENT-CLASS-179-15BC	c 32	N74-30523 *	US-PATENT-CLASS-182-5	c 15	N73-25512 *
US-PATENT-CLASS-178-6.8	c 07	N73-30115 *	US-PATENT-CLASS-179-15BC	c 33	N75-26243 *	US-PATENT-CLASS-182-6.5	c 31	N81-27324 *
US-PATENT-CLASS-178-6.8	c 33	N75-30431 *	US-PATENT-CLASS-179-15BL	c 08	N72-22162 *	US-PATENT-CLASS-182-63	c 54	N87-29118 *
US-PATENT-CLASS-178-6.8	c 45	N76-17656 *	US-PATENT-CLASS-179-15BM	c 07	N73-26118 *	US-PATENT-CLASS-182-63	c 54	N92-16559 *
US-PATENT-CLASS-178-6.8R	c 32	N75-24981 *	US-PATENT-CLASS-179-15BS	c 10	N71-33407 *	US-PATENT-CLASS-182-82	c 54	N87-29118 *
US-PATENT-CLASS-178-6.8R	c 09	N71-25866 *	US-PATENT-CLASS-179-15BS	c 07	N72-20140 *	US-PATENT-CLASS-184-1	c 15	N71-23048 *
US-PATENT-CLASS-178-6.8R	c 08	N72-18184 *	US-PATENT-CLASS-179-15BS	c 07	N73-30115 *	US-PATENT-CLASS-185-38	c 37	N78-16369 *
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US-PATENT-CLASS-178-69.5R	c 07	N72-20140 *	US-PATENT-CLASS-179-15FD	c 08	N72-25208 *	US-PATENT-CLASS-188-1B	c 15	N72-20443 *
US-PATENT-CLASS-178-69.5R	c 32	N75-26195 *	US-PATENT-CLASS-179-15FS	c 07	N73-28012 *	US-PATENT-CLASS-188-1B	c 19	N72-22284 *
US-PATENT-CLASS-178-69.5R	c 33	N76-14371 *	US-PATENT-CLASS-179-15	c 07	N69-39978 *	US-PATENT-CLASS-188-1C	c 15	N72-17450 *
US-PATENT-CLASS-178-69.5R	c 60	N77-19760 *	US-PATENT-CLASS-179-15	c 07	N71-20814 *	US-PATENT-CLASS-188-1C	c 15	N72-20443 *
US-PATENT-CLASS-178-69.5	c 07	N71-11281 *	US-PATENT-CLASS-179-15	c 07	N71-24621 *	US-PATENT-CLASS-188-1C	c 15	N73-30460 *
US-PATENT-CLASS-178-69.5	c 10	N71-19468 *	US-PATENT-CLASS-179-15	c 07	N71-24622 *	US-PATENT-CLASS-188-1C	c 11	N73-32152 *
US-PATENT-CLASS-178-69.5	c 10	N71-25866 *	US-PATENT-CLASS-179-15	c 08	N72-18184 *	US-PATENT-CLASS-188-1C	c 37	N79-10420 *
US-PATENT-CLASS-178-69.5	c 10	N71-33407 *	US-PATENT-CLASS-179-175.1A	c 14	N73-27379 *	US-PATENT-CLASS-188-103	c 15	N71-27146 *
US-PATENT-CLASS-178-69.5	c 07	N72-25173 *	US-PATENT-CLASS-179-175.1A	c 33	N78-10375 *	US-PATENT-CLASS-188-129	c 15	N72-17450 *
US-PATENT-CLASS-178-69.5	c 07	N73-13149 *	US-PATENT-CLASS-179-18BC	c 32	N86-27513 *	US-PATENT-CLASS-188-129	c 37	N93-23075 *
US-PATENT-CLASS-178-69.5	c 09	N73-28084 *	US-PATENT-CLASS-179-18GF	c 33	N82-29538 *	US-PATENT-CLASS-188-134	c 37	N81-15364 *
US-PATENT-CLASS-178-69.5	c 17	N76-22245 *	US-PATENT-CLASS-179-1	c 07	N71-26181 *	US-PATENT-CLASS-188-151A	c 44	N79-14527 *
US-PATENT-CLASS-178-69A	c 35	N75-21582 *	US-PATENT-CLASS-179-1	c 31	N71-33160 *	US-PATENT-CLASS-188-163	c 37	N74-26976 *
US-PATENT-CLASS-178-69C	c 32	N76-16249 *	US-PATENT-CLASS-179-27CA	c 32	N79-23310 *	US-PATENT-CLASS-188-163	c 37	N94-23969 *
US-PATENT-CLASS-178-6	c 07	N71-19433 *	US-PATENT-CLASS-179-78	c 33	N81-27397 *	US-PATENT-CLASS-188-171	c 37	N74-26976 *
US-PATENT-CLASS-178-6	c 09	N71-19449 *	US-PATENT-CLASS-179-84VF	c 32	N79-23310 *	US-PATENT-CLASS-188-171	c 37	N92-21728 *
US-PATENT-CLASS-178-6	c 07	N71-23026 *	US-PATENT-CLASS-179-91R	c 74	N78-14889 *	US-PATENT-CLASS-188-171	c 37	N94-23969 *
US-PATENT-CLASS-178-6	c 07	N71-26579 *	US-PATENT-CLASS-18-26	c 06	N71-22975 *	US-PATENT-CLASS-188-180	c 37	N81-15364 *
US-PATENT-CLASS-178-6	c 07	N72-12081 *	US-PATENT-CLASS-18-39	c 27	N70-34783 *	US-PATENT-CLASS-188-184	c 37	N81-15364 *
US-PATENT-CLASS-178-6	c 16	N72-13437 *	US-PATENT-CLASS-18-6	c 15	N71-26721 *	US-PATENT-CLASS-188-1	c 15	N70-34861 *
US-PATENT-CLASS-178-6	c 10	N73-13235 *	US-PATENT-CLASS-180-105E	c 11	N72-20244 *	US-PATENT-CLASS-188-1	c 15	N70-38601 *
US-PATENT-CLASS-178-6	c 36	N74-20009 *	US-PATENT-CLASS-180-118	c 31	N71-15689 *	US-PATENT-CLASS-188-1	c 15	N70-40354 *
US-PATENT-CLASS-178-7.1	c 07	N71-24612 *	US-PATENT-CLASS-180-121	c 31	N71-15689 *	US-PATENT-CLASS-188-1	c 14	N71-17626 *
US-PATENT-CLASS-178-7.1	c 07	N71-27341 *	US-PATENT-CLASS-180-125	c 15	N72-17451 *	US-PATENT-CLASS-188-1	c 15	N71-22877 *
US-PATENT-CLASS-178-7.1	c 09	N72-17156 *	US-PATENT-CLASS-180-127	c 15	N72-17451 *	US-PATENT-CLASS-188-1	c 14	N71-23092 *
US-PATENT-CLASS-178-7.1	c 32	N74-19790 *	US-PATENT-CLASS-180-168	c 35	N84-33769 *	US-PATENT-CLASS-188-1	c 15	N71-26243 *
US-PATENT-CLASS-178-7.1	c 36	N75-19652 *	US-PATENT-CLASS-180-18.2	c 85	N87-21755 *	US-PATENT-CLASS-188-1	c 15	N71-27146 *
US-PATENT-CLASS-178-7.2R	c 08	N72-22164 *	US-PATENT-CLASS-180-305	c 85	N87-21755 *	US-PATENT-CLASS-188-1	c 15	N71-27169 *
US-PATENT-CLASS-178-7.2	c 14	N70-41807 *	US-PATENT-CLASS-180-41	c 11	N73-26238 *	US-PATENT-CLASS-188-218-XL	c 37	N88-29181 *
US-PATENT-CLASS-178-7.2	c 71	N74-21014 *	US-PATENT-CLASS-180-6.5	c 11	N73-26238 *	US-PATENT-CLASS-188-24.11	c 37	N91-32514 *
US-PATENT-CLASS-178-7.2	c 35	N75-25123 *	US-PATENT-CLASS-180-7.1	c 37	N94-20494 *	US-PATENT-CLASS-188-251-A	c 37	N88-29181 *
US-PATENT-CLASS-178-7.3	c 07	N71-27341 *	US-PATENT-CLASS-180-7R	c 11	N73-26238 *	US-PATENT-CLASS-188-266	c 15	N73-25513 *
US-PATENT-CLASS-178-7.3	c 07	N72-12081 *	US-PATENT-CLASS-180-79.3	c 37	N74-18125 *	US-PATENT-CLASS-188-268	c 15	N72-20443 *
US-PATENT-CLASS-178-7.5E	c 10	N72-31273 *	US-PATENT-CLASS-180-8.6	c 18	N88-23828 *	US-PATENT-CLASS-188-269	c 44	N79-14527 *
US-PATENT-CLASS-178-7.6	c 36	N74-20009 *	US-PATENT-CLASS-180-8A	c 11	N73-26238 *	US-PATENT-CLASS-188-291	c 54	N77-21844 *
US-PATENT-CLASS-178-7.7	c 09	N71-12539 *	US-PATENT-CLASS-180-9.2R	c 11	N73-26238 *	US-PATENT-CLASS-188-322.5	c 39	N93-24596 *
US-PATENT-CLASS-178-7.7	c 32	N74-20813 *	US-PATENT-CLASS-180-9.5	c 11	N73-26238 *	US-PATENT-CLASS-188-371	c 37	N82-18601 *
US-PATENT-CLASS-178-7.89	c 09	N76-24280 *	US-PATENT-CLASS-181.5R	c 71	N74-31148 *	US-PATENT-CLASS-188-373	c 37	N88-23982 *
US-PATENT-CLASS-178-7.92	c 14	N72-25414 *	US-PATENT-CLASS-181.5	c 11	N71-28779 *	US-PATENT-CLASS-188-378	c 37	N92-34173 *
US-PATENT-CLASS-178-79	c 32	N75-21486 *	US-PATENT-CLASS-181-0.5	c 71	N85-30765 *	US-PATENT-CLASS-188-65.1	c 15	N73-25512 *
US-PATENT-CLASS-178-88	c 07	N71-12392 *	US-PATENT-CLASS-181-0.5	c 71	N88-24241 *	US-PATENT-CLASS-188-65.5	c 15	N71-27067 *
US-PATENT-CLASS-178-88	c 33	N74-12887 *	US-PATENT-CLASS-181-0.5	c 31	N90-21215 *	US-PATENT-CLASS-188-67	c 37	N93-23075 *
US-PATENT-CLASS-178-88	c 32	N74-20809 *	US-PATENT-CLASS-181-1.02	c 71	N91-14808 *	US-PATENT-CLASS-188-82.3	c 37	N94-23969 *
US-PATENT-CLASS-178-88	c 33	N74-27705 *	US-PATENT-CLASS-181-1.02	c 39	N80-10507 *	US-PATENT-CLASS-188-82.84	c 37	N92-21728 *
US-PATENT-CLASS-178-88	c 33	N76-14371 *	US-PATENT-CLASS-181-1.02	c 31	N80-32584 *	US-PATENT-CLASS-188-82.84	c 37	N93-23075 *
US-PATENT-CLASS-178-88	c 32	N76-16249 *	US-PATENT-CLASS-181-1.05	c 39	N80-10507 *	US-PATENT-CLASS-188-82.84	c 37	N94-23969 *
US-PATENT-CLASS-178-88	c 32	N77-10392 *	US-PATENT-CLASS-181-1.06	c 46	N79-22679 *	US-PATENT-CLASS-188-82.9	c 37	N92-21728 *
US-PATENT-CLASS-178-88	c 32	N77-24331 *	US-PATENT-CLASS-181-1.15	c 46	N79-23555 *	US-PATENT-CLASS-188-87	c 12	N71-16894 *
US-PATENT-CLASS-179-IDM	c 71	N79-23753 *	US-PATENT-CLASS-181-1.17	c 46	N79-22679 *	US-PATENT-CLASS-188-88	c 15	N71-26611 *
US-PATENT-CLASS-179-1MF	c 71	N79-23753 *	US-PATENT-CLASS-181-1.20	c 46	N79-23555 *	US-PATENT-CLASS-189-36	c 15	N70-36947 *
US-PATENT-CLASS-179-1MN	c 32	N72-23310 *	US-PATENT-CLASS-181-121	c 35	N84-22584 *	US-PATENT-CLASS-19-205	c 37	N76-18456 *
US-PATENT-CLASS-179-1P	c 10	N73-12244 *	US-PATENT-CLASS-181-148	c 71	N79-23753 *	US-PATENT-CLASS-191-12.2-R	c 33	N86-20669 *
US-PATENT-CLASS-179-1R	c 07	N71-33108 *	US-PATENT-CLASS-181-190	c 71	N79-14871 *	US-PATENT-CLASS-192-43.1	c 15	N71-17805 *
US-PATENT-CLASS-179-1SA	c 10	N73-25240 *	US-PATENT-CLASS-181-206	c 71	N91-27913 *	US-PATENT-CLASS-192-44	c 37	N94-23969 *
US-PATENT-CLASS-179-1SA	c 32	N76-31372 *	US-PATENT-CLASS-181-213	c 71	N79-14871 *	US-PATENT-CLASS-192-45.1	c 37	N94-23969 *
US-PATENT-CLASS-179-1SA	c 32	N77-30309 *	US-PATENT-CLASS-181-214	c 07	N83-33884 *	US-PATENT-CLASS-192-46	c 37	N87-17037 *
US-PATENT-CLASS-179-1SP	c 32	N77-30309 *	US-PATENT-CLASS-181-214	c 07	N81-14999 *	US-PATENT-CLASS-192-67R	c 37	N87-17037 *
US-PATENT-CLASS-179-1VC	c 07	N71-33108 *	US-PATENT-CLASS-181-214	c 71	N82-16800 *	US-PATENT-CLASS-194-82.26	c 37	N90-21390 *

US-PATENT-CLASS-204-35N

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US-PATENT-CLASS-204-35N

US-PATENT-CLASS-204-35N c 44 N83-34449 *
 US-PATENT-CLASS-204-37.6 c 76 N84-35112 * #
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US-PATENT-CLASS-252-62	c 27	N74-27037 *	US-PATENT-CLASS-260-2.5R	c 27	N74-27037 *	US-PATENT-CLASS-260-47UP	c 06	N73-32029 *
US-PATENT-CLASS-252-70	c 23	N75-14834 *	US-PATENT-CLASS-260-2.5R	c 24	N78-15180 *	US-PATENT-CLASS-260-47	c 06	N71-28820 *
US-PATENT-CLASS-252-79.2	c 25	N92-25399 *	US-PATENT-CLASS-260-2.5	c 06	N71-11242 *	US-PATENT-CLASS-260-47	c 06	N71-28807 *
US-PATENT-CLASS-252-79.4	c 25	N92-25399 *	US-PATENT-CLASS-260-2.5	c 06	N71-24739 *	US-PATENT-CLASS-260-485F	c 06	N73-30098 *
US-PATENT-CLASS-252-8.1	c 18	N73-26572 *	US-PATENT-CLASS-260-2.5	c 06	N71-25929 *	US-PATENT-CLASS-260-49	c 27	N78-32261 *
US-PATENT-CLASS-252-8.1	c 27	N74-27037 *	US-PATENT-CLASS-260-2.5	c 18	N71-26155 *	US-PATENT-CLASS-260-520	c 23	N75-30256 *
US-PATENT-CLASS-252-8.1	c 24	N78-14096 *	US-PATENT-CLASS-260-2.5	c 06	N72-25150 *	US-PATENT-CLASS-260-535H	c 06	N72-27144 *
US-PATENT-CLASS-253-317	c 44	N77-22606 *	US-PATENT-CLASS-260-2P	c 27	N78-32256 *	US-PATENT-CLASS-260-53	c 27	N79-28307 *
US-PATENT-CLASS-253-39.15	c 15	N70-33226 *	US-PATENT-CLASS-260-2R	c 37	N74-18126 *	US-PATENT-CLASS-260-544-D	c 27	N86-21675 *
US-PATENT-CLASS-253-39.15	c 15	N70-33264 *	US-PATENT-CLASS-260-2R	c 27	N74-27037 *	US-PATENT-CLASS-260-544-P	c 27	N87-14515 *
US-PATENT-CLASS-253-39.15	c 28	N70-33372 *	US-PATENT-CLASS-260-2R	c 27	N78-15276 *	US-PATENT-CLASS-260-544F	c 06	N72-20121 *
US-PATENT-CLASS-253-39.1	c 33	N71-29152 *	US-PATENT-CLASS-260-21.5	c 06	N72-25149 *	US-PATENT-CLASS-260-544P	c 27	N86-27450 *
US-PATENT-CLASS-253-66	c 15	N70-36412 *	US-PATENT-CLASS-260-240G	c 27	N76-32315 *	US-PATENT-CLASS-260-551P	c 27	N78-32256 *
US-PATENT-CLASS-253-66	c 28	N70-39895 *	US-PATENT-CLASS-260-245.75	c 27	N86-19455 *	US-PATENT-CLASS-260-566B	c 27	N76-32315 *
US-PATENT-CLASS-253-77	c 28	N71-28928 *	US-PATENT-CLASS-260-245.9	c 27	N86-19455 *	US-PATENT-CLASS-260-567.6M	c 06	N73-32029 *
US-PATENT-CLASS-253-77	c 28	N71-29154 *	US-PATENT-CLASS-260-28.5	c 27	N78-33228 *	US-PATENT-CLASS-260-571	c 23	N76-15268 *
US-PATENT-CLASS-253	c 25	N79-28253 *	US-PATENT-CLASS-260-29.1R	c 24	N78-24290 *	US-PATENT-CLASS-260-606-5P	c 27	N78-32256 *
US-PATENT-CLASS-254-101	c 37	N91-21543 *	US-PATENT-CLASS-260-29.6RB	c 25	N81-19242 *	US-PATENT-CLASS-260-615	c 06	N71-27254 *
US-PATENT-CLASS-254-124	c 20	N76-22296 *	US-PATENT-CLASS-260-29.6S	c 27	N74-17283 *	US-PATENT-CLASS-260-615	c 06	N73-30101 *
US-PATENT-CLASS-254-131	c 60	N82-24839 *	US-PATENT-CLASS-260-29.6	c 26	N75-27125 *	US-PATENT-CLASS-260-63N	c 27	N78-31232 *
US-PATENT-CLASS-254-150	c 15	N71-24589 *	US-PATENT-CLASS-260-2	c 06	N71-11243 *	US-PATENT-CLASS-260-63N	c 27	N78-32261 *
US-PATENT-CLASS-254-156	c 15	N73-25512 *	US-PATENT-CLASS-260-2	c 06	N71-20717 *	US-PATENT-CLASS-260-63R	c 27	N78-32261 *
US-PATENT-CLASS-254-156	c 54	N77-21844 *	US-PATENT-CLASS-260-2	c 06	N71-20905 *	US-PATENT-CLASS-260-65	c 06	N73-27980 *
US-PATENT-CLASS-254-173	c 15	N71-24599 *	US-PATENT-CLASS-260-2	c 06	N71-27363 *	US-PATENT-CLASS-260-65	c 27	N78-32261 *
US-PATENT-CLASS-254-186	c 15	N71-24599 *	US-PATENT-CLASS-260-2	c 06	N73-30102 *	US-PATENT-CLASS-260-65	c 23	N82-29358 *
US-PATENT-CLASS-254-190	c 15	N72-25453 *	US-PATENT-CLASS-260-2	c 27	N79-21190 *	US-PATENT-CLASS-260-67	c 27	N78-17214 *
US-PATENT-CLASS-254-29A	c 15	N73-30457 *	US-PATENT-CLASS-260-30.2	c 06	N73-27980 *	US-PATENT-CLASS-260-67	c 27	N79-21191 *
US-PATENT-CLASS-254-93-H	c 35	N88-24927 *	US-PATENT-CLASS-260-30.4N	c 27	N78-17205 *	US-PATENT-CLASS-260-72.5	c 06	N71-11236 *
US-PATENT-CLASS-254-93-R	c 35	N88-24927 *	US-PATENT-CLASS-260-30.8DS	c 06	N73-27980 *	US-PATENT-CLASS-260-72.5	c 06	N71-11239 *
US-PATENT-CLASS-254-93R	c 35	N74-13129 *	US-PATENT-CLASS-260-307G	c 27	N79-22300 *	US-PATENT-CLASS-260-72.5	c 06	N71-24740 *
US-PATENT-CLASS-254-93R	c 20	N76-22296 *	US-PATENT-CLASS-260-32.2R	c 27	N78-17205 *	US-PATENT-CLASS-260-75NH	c 27	N78-17213 *
US-PATENT-CLASS-256-13.1	c 37	N79-10420 *	US-PATENT-CLASS-260-32.6NT	c 27	N78-17205 *	US-PATENT-CLASS-260-75N	c 27	N78-17213 *
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US-PATENT-CLASS-256-308.2	c 27	N86-20561 *	US-PATENT-CLASS-260-32.6N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AM	c 27	N78-17213 *
US-PATENT-CLASS-256-59	c 37	N92-29092 *	US-PATENT-CLASS-260-32.8N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AN	c 27	N78-17213 *
US-PATENT-CLASS-257-15	c 33	N94-23821 *	US-PATENT-CLASS-260-326N	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 06	N72-27144 *
US-PATENT-CLASS-257-17	c 35	N93-19387 *	US-PATENT-CLASS-260-326S	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 06	N73-30076 *
US-PATENT-CLASS-257-199	c 33	N94-23821 *	US-PATENT-CLASS-260-33.4R	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5AP	c 27	N77-31308 *
US-PATENT-CLASS-257-21	c 35	N93-19387 *	US-PATENT-CLASS-260-33.4R	c 27	N78-17205 *	US-PATENT-CLASS-260-77.5AP	c 27	N78-17213 *
US-PATENT-CLASS-257-23	c 35	N93-19387 *	US-PATENT-CLASS-260-33.4R	c 27	N81-19296 *	US-PATENT-CLASS-260-77.5AT	c 27	N78-17213 *
US-PATENT-CLASS-257-2	c 33	N94-23820 *	US-PATENT-CLASS-260-33.6EP	c 24	N78-27180 *	US-PATENT-CLASS-260-77.55P	c 27	N78-17213 *
US-PATENT-CLASS-257-323	c 33	N94-29426 *	US-PATENT-CLASS-260-33.6PQ	c 24	N78-27180 *	US-PATENT-CLASS-260-77.5	c 06	N73-30099 *
US-PATENT-CLASS-257-33	c 76	N94-29501 *	US-PATENT-CLASS-260-33.6R	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5	c 06	N73-30100 *
US-PATENT-CLASS-257-35	c 76	N94-29501 *	US-PATENT-CLASS-260-33.6UB	c 27	N81-15104 *	US-PATENT-CLASS-260-77.5	c 06	N73-30103 *
US-PATENT-CLASS-257-434	c 44	N94-35230 *	US-PATENT-CLASS-260-33.8EP	c 24	N78-27180 *	US-PATENT-CLASS-260-78.41	c 27	N78-31232 *
US-PATENT-CLASS-257-476	c 33	N94-23821 *	US-PATENT-CLASS-260-33.8F	c 27	N76-24405 *	US-PATENT-CLASS-260-78TF	c 06	N73-27980 *
US-PATENT-CLASS-257-480	c 33	N94-23821 *	US-PATENT-CLASS-260-33.8F	c 25	N81-14016 *	US-PATENT-CLASS-260-78TF	c 27	N74-23125 *
US-PATENT-CLASS-257-482	c 33	N94-23821 *	US-PATENT-CLASS-260-33.8UA	c 24	N78-27180 *	US-PATENT-CLASS-260-78TF	c 23	N75-30256 *
US-PATENT-CLASS-257-486	c 33	N94-23821 *	US-PATENT-CLASS-260-340.9R	c 23	N82-16174 *	US-PATENT-CLASS-260-78TF	c 27	N78-15268 *
US-PATENT-CLASS-257-506	c 33	N94-23821 *	US-PATENT-CLASS-260-346.3	c 23	N75-30256 *	US-PATENT-CLASS-260-78UA	c 06	N73-27980 *
US-PATENT-CLASS-257-528	c 33	N94-23820 *	US-PATENT-CLASS-260-346.3	c 23	N76-15268 *	US-PATENT-CLASS-260-78	c 06	N71-11235 *
US-PATENT-CLASS-257-631	c 44	N94-35230 *	US-PATENT-CLASS-260-346.3	c 27	N80-32515 *	US-PATENT-CLASS-260-78	c 06	N71-11238 *
US-PATENT-CLASS-257-712	c 32	N93-29087 *	US-PATENT-CLASS-260-348SC	c 06	N72-25148 *	US-PATENT-CLASS-260-78	c 06	N79-26100 *
US-PATENT-CLASS-257-720	c 24	N94-35076 *	US-PATENT-CLASS-260-37EP	c 24	N78-24290 *	US-PATENT-CLASS-260-830S	c 15	N71-26100 *
US-PATENT-CLASS-257-76	c 44	N94-35230 *	US-PATENT-CLASS-260-37EP	c 24	N78-27180 *	US-PATENT-CLASS-260-85.5	c 06	N71-23500 *
US-PATENT-CLASS-259-DIG.18	c 35	N74-15093 *	US-PATENT-CLASS-260-37EP	c 15	N79-26100 *	US-PATENT-CLASS-260-858	c 27	N81-14076 *
US-PATENT-CLASS-259-4AC	c 37	N76-19436 *	US-PATENT-CLASS-260-37EP	c 27	N81-17260 *	US-PATENT-CLASS-260-877	c 06	N72-22107 *
US-PATENT-CLASS-259-4	c 15	N73-19458 *	US-PATENT-CLASS-260-37N	c 27	N79-28307 *	US-PATENT-CLASS-260-879	c 27	N76-16228 *
US-PATENT-CLASS-259-60	c 35	N74-15093 *	US-PATENT-CLASS-260-37	c 18	N71-25881 *	US-PATENT-CLASS-260-886	c 27	N81-14076 *
US-PATENT-CLASS-259-71	c 15	N71-21177 *	US-PATENT-CLASS-260-37	c 27	N81-24258 *	US-PATENT-CLASS-260-8900	c 27	N81-14076 *
US-PATENT-CLASS-259-72	c 37	N74-18123 *	US-PATENT-CLASS-260-386	c 25	N82-24312 *	US-PATENT-CLASS-260-895	c 27	N81-14076 *
US-PATENT-CLASS-259-98	c 35	N74-15126 *	US-PATENT-CLASS-260-386	c 23	N88-26404 *	US-PATENT-CLASS-260-898	c 27	N81-14076 *
US-PATENT-CLASS-259/4R	c 34	N77-24423 *	US-PATENT-CLASS-260-386	c 25	N90-23497 *	US-PATENT-CLASS-260-900	c 27	N76-16228 *
US-PATENT-CLASS-260.46.5E	c 27	N74-21156 *	US-PATENT-CLASS-260-389	c 25	N82-24312 *	US-PATENT-CLASS-260-901	c 27	N81-14076 *
US-PATENT-CLASS-260-DIG.15	c 27	N78-14164 *	US-PATENT-CLASS-260-389	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25150 *
US-PATENT-CLASS-260-DIG.24	c 27	N74-27037 *	US-PATENT-CLASS-260-395	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25152 *
US-PATENT-CLASS-260-DIG.24	c 27	N76-24405 *	US-PATENT-CLASS-260-395	c 25	N90-23497 *	US-PATENT-CLASS-260-92.1	c 27	N76-16228 *
US-PATENT-CLASS-260-DIG.29	c 27	N80-24438 *	US-PATENT-CLASS-260-396N	c 27	N74-27037 *	US-PATENT-CLASS-260-92.1	c 27	N76-24405 *
US-PATENT-CLASS-260-17.2	c 24	N80-26388 *	US-PATENT-CLASS-260-404.5	c 18	N71-15688 *	US-PATENT-CLASS-260-926	c 27	N80-10358 *
US-PATENT-CLASS-260-17.2	c 24	N81-13999 *	US-PATENT-CLASS-260-42.17	c 27	N78-17215 *	US-PATENT-CLASS-260-927-N	c 23	N86-19376 *
US-PATENT-CLASS-260-17.4UC	c 23	N81-29160 *	US-PATENT-CLASS-260-42.43	c 24	N78-27180 *	US-PATENT-CLASS-260-93.5A	c 06	N73-32029 *
US-PATENT-CLASS-260-17A	c 27	N81-14076 *	US-PATENT-CLASS-260-429	c 06	N71-28808 *	US-PATENT-CLASS-260-93.5S	c 06	N73-32029 *
US-PATENT-CLASS-260-18S	c 06	N72-25151 *	US-PATENT-CLASS-260-442	c 27	N79-28307 *	US-PATENT-CLASS-260-94.2M	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 18	N72-22567 *	US-PATENT-CLASS-260-448.2D	c 06	N72-25151 *	US-PATENT-CLASS-260-94.2R	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 27	N81-14076 *	US-PATENT-CLASS-260-448.2D	c 06	N73-32030 *	US-PATENT-CLASS-260-94.7R	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 25	N81-19244 *	US-PATENT-CLASS-260-448.2N	c 37	N74-21058 *	US-PATENT-CLASS-260-94.8	c 27	N73-22710 *
US-PATENT-CLASS-260-2.1	c 25	N81-17187 *	US-PATENT-CLASS-260-448.2	c 06	N71-23230 *	US-PATENT-CLASS-260-959	c 27	N78-32256 *
US-PATENT-CLASS-260-2.2R	c 25	N81-17187 *	US-PATENT-CLASS-260-45.7R	c 24	N78-27180 *	US-PATENT-CLASS-260-96D	c 28	N81-15119 *
US-PATENT-CLASS-260-2.2R	c 25	N81-19244 *	US-PATENT-CLASS-260-45.7R	c 27	N82-16238 *	US-PATENT-CLASS-261-DIG.75	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AK	c 27	N76-15310 *	US-PATENT-CLASS-260-45.75W	c 24	N78-27180 *	US-PATENT-CLASS-261-118	c 31	N80-18231 *
US-PATENT-CLASS-260-2.5AK	c 24	N78-24290 *	US-PATENT-CLASS-260-45.7	c 27	N76-24405 *	US-PATENT-CLASS-261-123	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AM	c 27	N74-12812 *	US-PATENT-CLASS-260-45.85N	c 24	N78-27180 *	US-PATENT-CLASS-261-145	c 28	N72-22772 *
US-PATENT-CLASS-260-2.5AM	c 27	N77-31308 *	US-PATENT-CLASS-260-45.9R	c 24	N78-27180 *	US-PATENT-CLASS-261-28	c 07	N81-29129 *
US-PATENT-CLASS-260-2.5AP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5E	c 06	N72-25151 *	US-PATENT-CLASS-261-78A	c 35	N86-29174 *
US-PATENT-CLASS-260-2.5AY	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5G	c 06	N72-25151 *	US-PATENT-CLASS-261-79A	c 54	N81-24724 *
US-PATENT-CLASS-260-2.5A	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5P	c 06	N72-25151 *	US-PATENT-CLASS-261-83	c 51	N91-30667 *
US-PATENT-CLASS-260-2.5BE	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5R	c 06	N73-26100 *	US-PATENT-CLASS-263-48	c 15	N69-27483 *
US-PATENT-CLASS-260-2.5B	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 06	N71-11237 *	US-PATENT-CLASS-264-DIG.19	c 27	N94-23311 *

US-PATENT-CLASS-264-DIG.36

US-PATENT-CLASS-264-DIG.36 c 18 N73-14584 *

US-PATENT-CLASS-264-DIG.44 c 15 N72-16329 *

US-PATENT-CLASS-264-DIG.64 c 27 N88-23894 *

US-PATENT-CLASS-264-DIG.65 c 27 N85-20124 *

US-PATENT-CLASS-264-DIG.65 c 27 N93-25995 *

US-PATENT-CLASS-264-DIG.59 c 27 N89-29539 *

US-PATENT-CLASS-264-022 c 27 N90-21198 *

US-PATENT-CLASS-264-102 c 15 N71-10672 *

US-PATENT-CLASS-264-102 c 15 N73-12489 *

US-PATENT-CLASS-264-102 c 31 N74-14133 *

US-PATENT-CLASS-264-102 c 31 N74-18124 *

US-PATENT-CLASS-264-102 c 37 N76-24575 *

US-PATENT-CLASS-264-102 c 15 N79-26100 *

US-PATENT-CLASS-264-104 c 05 N72-25120 *

US-PATENT-CLASS-264-104 c 27 N81-24257 *

US-PATENT-CLASS-264-104 c 23 N81-29160 *

US-PATENT-CLASS-264-104 c 25 N83-13188 *

US-PATENT-CLASS-264-105 c 27 N81-24257 *

US-PATENT-CLASS-264-111 c 17 N71-29137 *

US-PATENT-CLASS-264-112 c 27 N85-20124 *

US-PATENT-CLASS-264-114 c 31 N90-19425 *

US-PATENT-CLASS-264-118 c 24 N80-26388 *

US-PATENT-CLASS-264-118 c 24 N84-16262 *

US-PATENT-CLASS-264-119 c 24 N80-26388 *

US-PATENT-CLASS-264-119 c 27 N90-23566 *

US-PATENT-CLASS-264-120 c 27 N85-20124 *

US-PATENT-CLASS-264-124 c 24 N80-26388 *

US-PATENT-CLASS-264-129 c 37 N76-31524 *

US-PATENT-CLASS-264-12 c 31 N83-35176 *

US-PATENT-CLASS-264-12 c 31 N91-32240 *

US-PATENT-CLASS-264-130 c 27 N78-32262 *

US-PATENT-CLASS-264-135 c 37 N74-18126 *

US-PATENT-CLASS-264-135 c 27 N93-25995 *

US-PATENT-CLASS-264-136 c 37 N74-18126 *

US-PATENT-CLASS-264-136 c 24 N91-25200 *

US-PATENT-CLASS-264-137 c 27 N79-33316 *

US-PATENT-CLASS-264-137 c 27 N81-14078 *

US-PATENT-CLASS-264-137 c 27 N81-29229 *

US-PATENT-CLASS-264-137 c 27 N83-34041 *

US-PATENT-CLASS-264-137 c 27 N85-20124 *

US-PATENT-CLASS-264-145 c 15 N79-26100 *

US-PATENT-CLASS-264-151 c 15 N79-26100 *

US-PATENT-CLASS-264-152 c 27 N85-20124 *

US-PATENT-CLASS-264-157 c 24 N78-17150 *

US-PATENT-CLASS-264-161 c 37 N76-31524 *

US-PATENT-CLASS-264-175 c 15 N79-26100 *

US-PATENT-CLASS-264-184 c 27 N78-32262 *

US-PATENT-CLASS-264-184 c 37 N91-27562 *

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US-PATENT-CLASS-264-216 c 25 N82-21268 *

US-PATENT-CLASS-264-216 c 27 N86-29039 *

US-PATENT-CLASS-264-217 c 25 N75-12087 *

US-PATENT-CLASS-264-219 c 37 N76-31524 *

US-PATENT-CLASS-264-220 c 27 N82-28440 *

US-PATENT-CLASS-264-221 c 15 N72-16329 *

US-PATENT-CLASS-264-221 c 27 N94-20377 *

US-PATENT-CLASS-264-225 c 15 N72-16329 *

US-PATENT-CLASS-264-227 c 15 N72-16329 *

US-PATENT-CLASS-264-229 c 24 N81-29163 *

US-PATENT-CLASS-264-22 c 15 N72-20448 *

US-PATENT-CLASS-264-22 c 14 N72-22439 *

US-PATENT-CLASS-264-22 c 25 N75-12087 *

US-PATENT-CLASS-264-22 c 27 N80-32516 *

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US-PATENT-CLASS-264-230 c 37 N82-24491 *

US-PATENT-CLASS-264-231 c 24 N81-29163 *

US-PATENT-CLASS-264-234 c 37 N91-27562 *

US-PATENT-CLASS-264-236 c 27 N78-32262 *

US-PATENT-CLASS-264-236 c 15 N79-26100 *

US-PATENT-CLASS-264-236 c 27 N86-29039 *

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US-PATENT-CLASS-264-236 c 27 N89-29539 *

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US-PATENT-CLASS-264-24 c 31 N81-33319 *

US-PATENT-CLASS-264-24 c 31 N83-35176 *

US-PATENT-CLASS-264-257 c 37 N74-18126 *

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US-PATENT-CLASS-264-257 c 24 N91-25200 *

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US-PATENT-CLASS-350-285	c 16	N73-33397 *	US-PATENT-CLASS-350-36	c 14	N72-22441 *	US-PATENT-CLASS-356-106	c 14	N73-12446 *
US-PATENT-CLASS-350-285	c 74	N74-15095 *	US-PATENT-CLASS-350-370	c 35	N81-33448 *	US-PATENT-CLASS-356-106	c 35	N74-15146 *
US-PATENT-CLASS-350-285	c 74	N80-21138 *	US-PATENT-CLASS-350-443	c 74	N84-23248 *	US-PATENT-CLASS-356-107	c 16	N71-24170 *
US-PATENT-CLASS-350-286	c 07	N71-29065 *	US-PATENT-CLASS-350-445	c 74	N83-36898 *	US-PATENT-CLASS-356-108	c 26	N73-26751 *
US-PATENT-CLASS-350-286	c 73	N78-32848 *	US-PATENT-CLASS-350-448	c 74	N86-20125 *	US-PATENT-CLASS-356-108	c 16	N73-30476 *
US-PATENT-CLASS-350-286	c 74	N83-10900 *	US-PATENT-CLASS-350-453	c 36	N82-32712 *	US-PATENT-CLASS-356-109	c 16	N73-30476 *
US-PATENT-CLASS-350-287	c 15	N72-11386 *	US-PATENT-CLASS-350-486	c 74	N83-13978 *	US-PATENT-CLASS-356-110	c 14	N73-25463 *
US-PATENT-CLASS-350-287	c 74	N83-13978 *	US-PATENT-CLASS-350-49	c 14	N72-22441 *	US-PATENT-CLASS-356-110	c 35	N78-18391 *
US-PATENT-CLASS-350-287	c 35	N91-14590 *	US-PATENT-CLASS-350-500	c 35	N91-14590 *	US-PATENT-CLASS-356-112	c 72	N74-19310 *
US-PATENT-CLASS-350-288	c 23	N71-29123 *	US-PATENT-CLASS-350-505	c 74	N85-23396 *	US-PATENT-CLASS-356-113	c 14	N72-17323 *
US-PATENT-CLASS-350-288	c 12	N76-15189 *	US-PATENT-CLASS-350-505	c 74	N86-28732 *	US-PATENT-CLASS-356-113	c 35	N74-23040 *
US-PATENT-CLASS-350-288	c 74	N77-28933 *	US-PATENT-CLASS-350-529	c 37	N91-21545 *	US-PATENT-CLASS-356-114	c 14	N73-12446 *
US-PATENT-CLASS-350-288	c 44	N79-11471 *	US-PATENT-CLASS-350-52	c 14	N72-22441 *	US-PATENT-CLASS-356-114	c 35	N76-31490 *
US-PATENT-CLASS-350-288	c 44	N79-24433 *	US-PATENT-CLASS-350-52	c 14	N72-22441 *	US-PATENT-CLASS-356-117	c 23	N71-16101 *
US-PATENT-CLASS-350-292	c 35	N75-12273 *	US-PATENT-CLASS-350-537	c 74	N86-20125 *	US-PATENT-CLASS-356-120	c 74	N78-27904 *
US-PATENT-CLASS-350-292	c 44	N79-14529 *	US-PATENT-CLASS-350-55	c 23	N71-33229 *	US-PATENT-CLASS-356-123	c 74	N76-19935 *
US-PATENT-CLASS-350-292	c 44	N79-24432 *	US-PATENT-CLASS-350-55	c 14	N73-30393 *	US-PATENT-CLASS-356-124	c 74	N76-19935 *
US-PATENT-CLASS-350-293	c 16	N73-16536 *	US-PATENT-CLASS-350-55	c 23	N73-30666 *	US-PATENT-CLASS-356-124	c 74	N79-11865 *
US-PATENT-CLASS-350-293	c 12	N76-15189 *	US-PATENT-CLASS-350-55	c 89	N79-10969 *	US-PATENT-CLASS-356-128	c 76	N87-25862 *
US-PATENT-CLASS-350-293	c 44	N76-24696 *	US-PATENT-CLASS-350-55	c 74	N80-33210 *	US-PATENT-CLASS-356-129	c 74	N78-20856 *
US-PATENT-CLASS-350-293	c 44	N78-10554 *	US-PATENT-CLASS-350-572	c 36	N88-14350 *	US-PATENT-CLASS-356-129	c 76	N87-25862 *
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US-PATENT-CLASS-350-294	c 89	N79-10969 *	US-PATENT-CLASS-350-576	c 35	N91-14591 *	US-PATENT-CLASS-356-138	c 16	N73-33397 *
US-PATENT-CLASS-350-294	c 44	N79-24432 *	US-PATENT-CLASS-350-580	c 74	N86-20125 *	US-PATENT-CLASS-356-141	c 14	N72-27409 *
US-PATENT-CLASS-350-294	c 32	N80-24510 *	US-PATENT-CLASS-350-58	c 14	N71-15604 *	US-PATENT-CLASS-356-141	c 14	N73-28490 *
US-PATENT-CLASS-350-295	c 44	N77-32583 *	US-PATENT-CLASS-350-6.5	c 32	N80-24510 *	US-PATENT-CLASS-356-141	c 36	N74-21091 *
US-PATENT-CLASS-350-295	c 44	N80-14473 *	US-PATENT-CLASS-350-6.5	c 74	N87-21679 *	US-PATENT-CLASS-356-141	c 89	N74-30886 *
US-PATENT-CLASS-350-296	c 44	N79-24432 *	US-PATENT-CLASS-350-6.6	c 32	N80-24510 *	US-PATENT-CLASS-356-141	c 74	N77-22951 *
US-PATENT-CLASS-350-296	c 44	N80-14473 *	US-PATENT-CLASS-350-619	c 74	N85-23396 *	US-PATENT-CLASS-356-141	c 09	N91-14356 *
US-PATENT-CLASS-350-299	c 74	N74-21304 *	US-PATENT-CLASS-350-6	c 14	N69-27461 *	US-PATENT-CLASS-356-147	c 35	N91-15512 *
US-PATENT-CLASS-350-299	c 44	N76-24696 *	US-PATENT-CLASS-350-6	c 36	N74-15145 *	US-PATENT-CLASS-356-147	c 89	N73-30886 *
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US-PATENT-CLASS-350-299	c 44	N78-10554 *	US-PATENT-CLASS-350-7	c 74	N74-15095 *	US-PATENT-CLASS-356-150	c 15	N71-28740 *
US-PATENT-CLASS-350-299	c 44	N78-31526 *	US-PATENT-CLASS-350-88	c 14	N72-22445 *	US-PATENT-CLASS-356-150	c 74	N80-21138 *
US-PATENT-CLASS-350-299	c 44	N79-11471 *	US-PATENT-CLASS-350-96.10	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 15	N71-28740 *
US-PATENT-CLASS-350-299	c 44	N79-24433 *	US-PATENT-CLASS-350-96.15	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 16	N72-13437 *
US-PATENT-CLASS-350-299	c 36	N84-14509 *	US-PATENT-CLASS-350-96.15	c 74	N85-29749 *	US-PATENT-CLASS-356-152	c 14	N72-20379 *
US-PATENT-CLASS-350-2	c 23	N71-30027 *	US-PATENT-CLASS-350-96.16	c 74	N83-29032 *	US-PATENT-CLASS-356-152	c 14	N72-27409 *
US-PATENT-CLASS-350-3.5	c 16	N71-15551 *	US-PATENT-CLASS-350-96.21	c 74	N89-25689 *	US-PATENT-CLASS-356-152	c 14	N73-25462 *
US-PATENT-CLASS-350-3.5	c 16	N71-15565 *	US-PATENT-CLASS-350-96.25	c 33	N81-29342 *	US-PATENT-CLASS-356-152	c 36	N74-15145 *
US-PATENT-CLASS-350-3.5	c 16	N71-15567 *	US-PATENT-CLASS-350-96.25	c 74	N89-25689 *	US-PATENT-CLASS-356-152	c 36	N74-21091 *
US-PATENT-CLASS-350-3.5	c 16	N71-26154 *	US-PATENT-CLASS-350-96.29	c 74	N91-21871 *	US-PATENT-CLASS-356-152	c 74	N74-21304 *
US-PATENT-CLASS-350-3.5	c 16	N71-29131 *	US-PATENT-CLASS-350-96R	c 60	N77-14751 *	US-PATENT-CLASS-356-152	c 74	N77-22951 *
US-PATENT-CLASS-350-3.5	c 14	N72-17324 *	US-PATENT-CLASS-350-96R	c 60	N77-32731 *	US-PATENT-CLASS-356-152	c 74	N80-21138 *
US-PATENT-CLASS-350-3.5	c 16	N73-30476 *	US-PATENT-CLASS-350-96R	c 60	N78-10709 *	US-PATENT-CLASS-356-152	c 37	N81-27519 *
US-PATENT-CLASS-350-3.5	c 35	N74-15146 *	US-PATENT-CLASS-350-96WG	c 36	N75-31427 *	US-PATENT-CLASS-356-152	c 09	N91-14356 *
US-PATENT-CLASS-350-3.5	c 35	N74-17153 *	US-PATENT-CLASS-350-96WG	c 36	N76-18428 *	US-PATENT-CLASS-356-152	c 35	N91-15512 *
US-PATENT-CLASS-350-3.5	c 35	N74-26946 *	US-PATENT-CLASS-350-96WG	c 36	N76-24553 *	US-PATENT-CLASS-356-153	c 15	N71-28740 *
US-PATENT-CLASS-350-3.5	c 35	N75-25124 *	US-PATENT-CLASS-350-96	c 07	N71-26291 *	US-PATENT-CLASS-356-153	c 23	N71-29125 *
US-PATENT-CLASS-350-3.5	c 35	N75-27328 *	US-PATENT-CLASS-350-97	c 18	N91-27200 *	US-PATENT-CLASS-356-153	c 16	N73-33397 *
US-PATENT-CLASS-350-3.5	c 35	N76-18402 *	US-PATENT-CLASS-351-166	c 74	N78-32854 *	US-PATENT-CLASS-356-153	c 18	N76-14186 *
US-PATENT-CLASS-350-3.5	c 35	N78-17357 *	US-PATENT-CLASS-351-203	c 52	N89-16256 *	US-PATENT-CLASS-356-154	c 15	N71-26673 *
US-PATENT-CLASS-350-3.5	c 38	N78-32447 *	US-PATENT-CLASS-351-206	c 52	N87-24874 *	US-PATENT-CLASS-356-159	c 36	N78-14380 *

US-PATENT-CLASS-356-160

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US-PATENT-CLASS-375-53	c 32	N91-14523 *	US-PATENT-CLASS-384-99	c 37	N93-26001 *	US-PATENT-CLASS-403-282	c 37	N93-20120 *
US-PATENT-CLASS-375-53	c 32	N91-25316 *	US-PATENT-CLASS-385-123	c 37	N85-33490 *	US-PATENT-CLASS-403-282	c 37	N94-20365 *
US-PATENT-CLASS-375-53	c 32	N91-25316 *	US-PATENT-CLASS-385-126	c 74	N94-20586 *	US-PATENT-CLASS-403-282	c 26	N83-10170 *
US-PATENT-CLASS-375-54	c 32	N91-27439 *	US-PATENT-CLASS-385-127	c 74	N94-20586 *	US-PATENT-CLASS-403-28	c 27	N76-14264 *
US-PATENT-CLASS-375-54	c 33	N81-15192 *	US-PATENT-CLASS-385-128	c 74	N94-20586 *	US-PATENT-CLASS-403-28	c 37	N85-29285 *
US-PATENT-CLASS-375-54	c 32	N87-25511 *	US-PATENT-CLASS-385-142	c 74	N94-20586 *	US-PATENT-CLASS-403-291	c 37	N92-29120 *
US-PATENT-CLASS-375-54	c 33	N87-25531 *	US-PATENT-CLASS-388-821	c 74	N94-20378 *	US-PATENT-CLASS-403-30	c 37	N91-17387 *
US-PATENT-CLASS-375-56	c 32	N91-25316 *	US-PATENT-CLASS-39-25.35	c 74	N94-20586 *	US-PATENT-CLASS-403-312	c 18	N89-28554 *
US-PATENT-CLASS-375-56	c 32	N91-27439 *	US-PATENT-CLASS-395-11	c 33	N90-21951 *	US-PATENT-CLASS-403-315	c 37	N86-27630 *
US-PATENT-CLASS-375-57	c 32	N91-14523 *	US-PATENT-CLASS-395-11	c 60	N86-20671 *	US-PATENT-CLASS-403-317	c 37	N82-24494 *
US-PATENT-CLASS-375-58	c 32	N81-15179 *	US-PATENT-CLASS-395-11	c 60	N93-20116 *	US-PATENT-CLASS-403-317	c 37	N82-32732 *
US-PATENT-CLASS-375-59	c 33	N87-25531 *	US-PATENT-CLASS-395-23	c 60	N83-29504 *	US-PATENT-CLASS-403-317	c 37	N85-21649 *
US-PATENT-CLASS-375-67	c 33	N81-15192 *	US-PATENT-CLASS-395-23	c 60	N93-20116 *	US-PATENT-CLASS-403-321	c 37	N91-14610 *
US-PATENT-CLASS-375-76	c 33	N87-25531 *	US-PATENT-CLASS-395-23	c 53	N93-29610 *	US-PATENT-CLASS-403-321	c 37	N93-20120 *
US-PATENT-CLASS-375-77	c 32	N84-27952 *	US-PATENT-CLASS-395-23	c 63	N94-20366 *	US-PATENT-CLASS-403-322	c 18	N84-22605 *
US-PATENT-CLASS-375-80	c 04	N91-14321 *	US-PATENT-CLASS-395-24	c 63	N94-29756 *	US-PATENT-CLASS-403-322	c 37	N85-30334 *
US-PATENT-CLASS-375-80	c 32	N92-21712 *	US-PATENT-CLASS-395-24	c 32	N92-22033 *	US-PATENT-CLASS-403-322	c 37	N85-30336 *
US-PATENT-CLASS-375-81	c 32	N84-27952 *	US-PATENT-CLASS-395-24	c 60	N93-20116 *	US-PATENT-CLASS-403-322	c 37	N90-17154 *
US-PATENT-CLASS-375-85	c 32	N91-25316 *	US-PATENT-CLASS-395-24	c 63	N94-20366 *	US-PATENT-CLASS-403-322	c 37	N91-14614 *
US-PATENT-CLASS-375-85	c 32	N91-27439 *	US-PATENT-CLASS-395-24	c 63	N94-20366 *	US-PATENT-CLASS-403-322	c 37	N94-29427 *
US-PATENT-CLASS-375-86	c 32	N91-25316 *	US-PATENT-CLASS-395-24	c 33	N94-29426 *	US-PATENT-CLASS-403-324	c 37	N93-23076 *
US-PATENT-CLASS-375-86	c 32	N91-27439 *	US-PATENT-CLASS-395-25	c 63	N94-29756 *	US-PATENT-CLASS-403-325	c 37	N90-17154 *
US-PATENT-CLASS-375-88	c 17	N87-16863 *	US-PATENT-CLASS-395-25	c 33	N94-29426 *	US-PATENT-CLASS-403-325	c 37	N94-35374 *
US-PATENT-CLASS-375-88	c 04	N91-14321 *	US-PATENT-CLASS-395-27	c 63	N94-20366 *	US-PATENT-CLASS-403-327	c 37	N91-14610 *
US-PATENT-CLASS-375-94	c 32	N92-21712 *	US-PATENT-CLASS-395-3	c 61	N94-20492 *	US-PATENT-CLASS-403-327	c 37	N91-14614 *
US-PATENT-CLASS-375-94	c 32	N91-25316 *	US-PATENT-CLASS-395-500	c 61	N93-18855 *	US-PATENT-CLASS-403-328	c 37	N94-35374 *
US-PATENT-CLASS-375-99	c 35	N81-19427 *	US-PATENT-CLASS-395-51	c 60	N93-29504 *	US-PATENT-CLASS-403-328	c 18	N86-20469 *
US-PATENT-CLASS-376-127	c 72	N87-21661 *	US-PATENT-CLASS-395-800	c 61	N94-20492 *	US-PATENT-CLASS-403-328	c 37	N90-17154 *
US-PATENT-CLASS-376-159	c 25	N85-21279 *	US-PATENT-CLASS-395-800	c 61	N93-18855 *	US-PATENT-CLASS-403-328	c 31	N92-16161 *
US-PATENT-CLASS-377-111	c 60	N90-21525 *	US-PATENT-CLASS-395-800	c 60	N93-29608 *	US-PATENT-CLASS-403-328	c 37	N94-35374 *
US-PATENT-CLASS-377-114	c 60	N90-21525 *	US-PATENT-CLASS-395-84	c 63	N94-29465 *	US-PATENT-CLASS-403-331	c 37	N82-32732 *
US-PATENT-CLASS-377-116	c 60	N90-21525 *	US-PATENT-CLASS-395-86	c 37	N94-10670 *	US-PATENT-CLASS-403-331	c 37	N91-14610 *
US-PATENT-CLASS-377-123	c 60	N90-21525 *	US-PATENT-CLASS-395-89	c 37	N92-22036 *	US-PATENT-CLASS-403-331	c 37	N91-14614 *
US-PATENT-CLASS-377-126	c 60	N90-21525 *	US-PATENT-CLASS-395-90	c 63	N94-29465 *	US-PATENT-CLASS-403-334	c 37	N91-15544 *
US-PATENT-CLASS-377-39	c 33	N89-14385 *	US-PATENT-CLASS-395-905	c 61	N94-20492 *	US-PATENT-CLASS-403-340	c 37	N82-32732 *
US-PATENT-CLASS-377-69	c 60	N90-21525 *	US-PATENT-CLASS-395-905	c 37	N94-10670 *	US-PATENT-CLASS-403-341	c 18	N87-27713 *
US-PATENT-CLASS-377-79	c 60	N90-21525 *	US-PATENT-CLASS-395-94	c 63	N92-33019 *	US-PATENT-CLASS-403-344	c 37	N94-20365 *
US-PATENT-CLASS-378-104	c 33	N85-29147 *	US-PATENT-CLASS-395-95	c 74	N94-35384 *	US-PATENT-CLASS-403-348	c 37	N85-30336 *
US-PATENT-CLASS-378-112	c 33	N85-29147 *	US-PATENT-CLASS-395-95	c 37	N92-22036 *	US-PATENT-CLASS-403-348	c 37	N94-23082 *
US-PATENT-CLASS-378-115	c 74	N93-14711 *	US-PATENT-CLASS-395-95	c 63	N94-29504 *	US-PATENT-CLASS-403-353	c 37	N93-20117 *
US-PATENT-CLASS-378-210	c 35	N92-29135 *	US-PATENT-CLASS-395-99	c 37	N94-10670 *	US-PATENT-CLASS-403-359	c 37	N94-23082 *
US-PATENT-CLASS-378-210	c 89	N92-33012 *	US-PATENT-CLASS-395-99	c 63	N94-29465 *	US-PATENT-CLASS-403-359	c 37	N94-35374 *
US-PATENT-CLASS-378-2	c 34	N83-19015 *	US-PATENT-CLASS-4-DIG.9	c 54	N91-14724 *	US-PATENT-CLASS-403-378	c 37	N94-35374 *
US-PATENT-CLASS-378-2	c 74	N84-11920 *	US-PATENT-CLASS-4-110	c 54	N74-20725 *	US-PATENT-CLASS-403-379	c 37	N94-35374 *
US-PATENT-CLASS-378-43	c 34	N83-19015 *	US-PATENT-CLASS-4-110	c 05	N72-22093 *	US-PATENT-CLASS-403-381	c 37	N91-14610 *
US-PATENT-CLASS-378-43	c 74	N86-20124 *	US-PATENT-CLASS-4-120	c 54	N74-20725 *	US-PATENT-CLASS-403-381	c 37	N93-20117 *
US-PATENT-CLASS-378-43	c 35	N92-29135 *	US-PATENT-CLASS-4-144.3	c 52	N81-24711 *	US-PATENT-CLASS-403-385	c 37	N91-14617 *
US-PATENT-CLASS-378-43	c 89	N92-33012 *	US-PATENT-CLASS-4-144.3	c 52	N81-28740 *	US-PATENT-CLASS-403-388	c 37	N86-27630 *
US-PATENT-CLASS-378-51	c 38	N90-23756 *	US-PATENT-CLASS-4-209R	c 54	N91-14723 *	US-PATENT-CLASS-403-391	c 37	N91-14617 *

US-PATENT-CLASS-403-404

US-PATENT-CLASS-403-404 c 37 N92-29120 *
US-PATENT-CLASS-403-404 c 37 N93-20120 *
US-PATENT-CLASS-403-404 c 16 N94-20304 *
US-PATENT-CLASS-403-408.1 c 37 N86-27630 *
US-PATENT-CLASS-403-408.1 c 16 N94-20304 *
US-PATENT-CLASS-403-408 c 37 N85-29285 *
US-PATENT-CLASS-403-4 c 18 N89-28554 *
US-PATENT-CLASS-403-51 c 18 N89-28553 *
US-PATENT-CLASS-403-56 c 18 N85-29991 *
US-PATENT-CLASS-403-57 c 37 N91-17387 *
US-PATENT-CLASS-403-64 c 31 N86-19479 *
US-PATENT-CLASS-403-6 c 37 N94-20365 *
US-PATENT-CLASS-403-72 c 18 N91-27199 *
US-PATENT-CLASS-403-76 c 18 N85-29991 *
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US-PATENT-CLASS-403-85 c 18 N87-14373 *
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US-PATENT-CLASS-403-97 c 37 N93-23076 *
US-PATENT-CLASS-405-188 c 18 N90-20126 *
US-PATENT-CLASS-405-188 c 18 N91-14374 *
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US-PATENT-CLASS-405-263 c 44 N79-24432 *
US-PATENT-CLASS-406-155 c 37 N84-16561 *
US-PATENT-CLASS-406-197 c 25 N93-20570 *
US-PATENT-CLASS-407-117 c 37 N81-14319 *
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US-PATENT-CLASS-408-112 c 37 N75-25186 *
US-PATENT-CLASS-408-124 c 37 N93-14710 *
US-PATENT-CLASS-408-124 c 37 N93-18286 *
US-PATENT-CLASS-408-137 c 15 N71-33518 *
US-PATENT-CLASS-408-14 c 35 N92-21723 *
US-PATENT-CLASS-408-16 c 35 N92-21723 *
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US-PATENT-CLASS-408-193 c 37 N75-25186 *
US-PATENT-CLASS-408-195 c 37 N75-25186 *
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US-PATENT-CLASS-408-241R c 37 N93-14710 *
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US-PATENT-CLASS-409-131 c 31 N83-27058 *
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US-PATENT-CLASS-410-79 c 18 N85-29991 *
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US-PATENT-CLASS-411-14 c 37 N92-29150 *
US-PATENT-CLASS-411-166 c 37 N87-22976 *
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US-PATENT-CLASS-411-340 c 37 N93-22384 *
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US-PATENT-CLASS-411-433 c 37 N92-29150 *
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US-PATENT-CLASS-411-517 c 37 N83-19091 *
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US-PATENT-CLASS-411-901 c 37 N92-21726 *
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US-PATENT-CLASS-411-930 c 37 N94-20379 *
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US-PATENT-CLASS-414-220 c 31 N91-15423 *
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US-PATENT-CLASS-414-739 c 37 N82-32731 *
US-PATENT-CLASS-414-744A c 54 N81-26718 *
US-PATENT-CLASS-414-750 c 18 N88-23828 *
US-PATENT-CLASS-414-753 c 37 N86-20789 *
US-PATENT-CLASS-414-766 c 85 N85-34722 *
US-PATENT-CLASS-414-7 c 54 N86-28618 *
US-PATENT-CLASS-414-7 c 54 N86-28620 *
US-PATENT-CLASS-414-7 c 37 N91-14616 *
US-PATENT-CLASS-414-7 c 37 N93-23078 *
US-PATENT-CLASS-414-8 c 54 N86-28618 *
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US-PATENT-CLASS-415-DIG.8 c 44 N84-23018 *
US-PATENT-CLASS-415-101 c 44 N80-21828 *
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US-PATENT-CLASS-415-115 c 34 N83-27144 *
US-PATENT-CLASS-415-115 c 07 N84-33410 *
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US-PATENT-CLASS-415-136 c 37 N88-23978 *
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US-PATENT-CLASS-415-174 c 37 N80-26658 *
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US-PATENT-CLASS-415-178 c 07 N82-32366 *
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US-PATENT-CLASS-415-180 c 07 N77-23106 *
US-PATENT-CLASS-415-180 c 37 N78-10467 *
US-PATENT-CLASS-415-181 c 07 N74-28226 *
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US-PATENT-CLASS-415-196 c 37 N80-26658 *
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US-PATENT-CLASS-416-214A c 07 N78-33101 *
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US-PATENT-CLASS-416-224 c 24 N77-19170 *
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US-PATENT-3,621,290	c 09	N72-22202 *	US-PATENT-3,653,882	c 18	N72-25539 *	US-PATENT-3,676,084	c 17	N72-28536 *
US-PATENT-3,621,294	c 09	N72-23171 *	US-PATENT-3,653,970	c 03	N72-24037 *	US-PATENT-3,676,674	c 14	N72-29464 *
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US-PATENT-3,777,200 c 33 N74-12913 *
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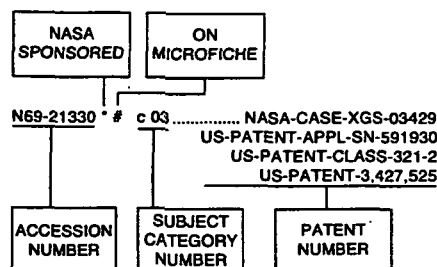
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		US-PATENT-3,509,034			US-PATENT-CLASS-85-3			US-PATENT-CLASS-73-432
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		US-PATENT-3,493,004			US-PATENT-CLASS-356-106			US-PATENT-CLASS-264-92
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		US-PATENT-CLASS-62-55.5			US-PATENT-3,620,846			US-PATENT-CLASS-156-510
		US-PATENT-3,625,018			NASA-CASE-NPO-11388			US-PATENT-3,654,036
N72-22485*	c 15	NASA-CASE-MSC-13512-1			US-PATENT-APPL-SN-119282	N72-25020*	c 03	NASA-CASE-GSC-11211-1
		US-PATENT-APPL-SN-73932			US-PATENT-CLASS-310-2			US-PATENT-APPL-SN-139528
		US-PATENT-CLASS-74-501R			US-PATENT-CLASS-321-2			US-PATENT-CLASS-235-92T
		US-PATENT-3,625,084			US-PATENT-CLASS-322-2			US-PATENT-CLASS-307-141.8
N72-22486*	c 15	NASA-CASE-KSC-10031			US-PATENT-3,648,152			US-PATENT-CLASS-320-48
		US-PATENT-APPL-SN-98773			NASA-CASE-LAR-10102-1			US-PATENT-CLASS-324-29.5
		US-PATENT-CLASS-220-5R			US-PATENT-APPL-SN-13266			US-PATENT-3,663,938
		US-PATENT-CLASS-317-101DH			US-PATENT-CLASS-224-25A	N72-25021*	c 03	NASA-CASE-NPO-11118
		US-PATENT-CLASS-317-117			US-PATENT-3,649,921			US-PATENT-APPL-SN-8650
		US-PATENT-CLASS-317-120			NASA-CASE-GSC-10221-1			US-PATENT-CLASS-214-90R
		US-PATENT-3,639,809			US-PATENT-APPL-SN-779025			US-PATENT-3,666,120
N72-22487*	c 15	NASA-CASE-GSC-10303			US-PATENT-CLASS-307-252N	N72-25119*	c 05	NASA-CASE-MSC-12397-1
		US-PATENT-APPL-SN-802813			US-PATENT-CLASS-307-252R			US-PATENT-APPL-SN-785613
		US-PATENT-CLASS-29-473.1			US-PATENT-CLASS-307-259			US-PATENT-CLASS-2-115
		US-PATENT-3,619,896			US-PATENT-CLASS-307-305			US-PATENT-CLASS-2-2.1
N72-22488*	c 15	NASA-CASE-MSC-11849-1			US-PATENT-3,621,294			US-PATENT-3,660,851
		US-PATENT-APPL-SN-6617			NASA-CASE-LAR-10320-1	N72-25120*	c 05	NASA-CASE-MSC-90153-2
		US-PATENT-CLASS-85-1			US-PATENT-APPL-SN-18427			US-PATENT-APPL-SN-844225
		US-PATENT-3,623,394			US-PATENT-CLASS-324-20R			US-PATENT-CLASS-106-209
N72-22489*	c 15	NASA-CASE-GSC-10518-1			US-PATENT-3,649,907			US-PATENT-CLASS-128-2.1
		US-PATENT-APPL-SN-789045			NASA-CASE-ERC-10267			US-PATENT-CLASS-128-417
		US-PATENT-CLASS-417-152			US-PATENT-APPL-SN-41348			US-PATENT-CLASS-252-514
		US-PATENT-CLASS-55-446			US-PATENT-CLASS-235-197			US-PATENT-CLASS-264-104
		US-PATENT-CLASS-55-464			US-PATENT-CLASS-307-229			US-PATENT-3,665,064
		US-PATENT-3,623,828			US-PATENT-CLASS-328-145	N72-25121*	c 05	NASA-CASE-FRC-10029-2
N72-22490*	c 15	NASA-CASE-LEW-10856-1			US-PATENT-3,648,043			US-PATENT-APPL-SN-78704
		US-PATENT-APPL-SN-3417			NASA-CASE-MFS-20710			US-PATENT-CLASS-156-264
		US-PATENT-CLASS-308-195			US-PATENT-APPL-SN-114848			US-PATENT-CLASS-156-308
		US-PATENT-3,620,585			US-PATENT-CLASS-13-20			US-PATENT-CLASS-29-25.14
N72-22491*	c 15	NASA-CASE-GSC-10913			US-PATENT-CLASS-13-31			US-PATENT-CLASS-29-25.18
		US-PATENT-APPL-SN-889558			US-PATENT-3,647,924			US-PATENT-CLASS-29-482
		US-PATENT-CLASS-219-158			NASA-CASE-MSC-12297			US-PATENT-CLASS-29-630A
		US-PATENT-CLASS-219-234			US-PATENT-APPL-SN-792623			US-PATENT-3,662,441
		US-PATENT-CLASS-219-85			US-PATENT-CLASS-55-493	N72-25122*	c 05	NASA-CASE-MSC-13609-1
		US-PATENT-CLASS-228-57			US-PATENT-CLASS-55-498			US-PATENT-APPL-SN-94347
		US-PATENT-CLASS-29-628			US-PATENT-CLASS-55-502			US-PATENT-CLASS-128-2N
		US-PATENT-3,621,194			US-PATENT-CLASS-55-521			US-PATENT-3,662,744
N72-22492*	c 15	NASA-CASE-MFS-20482			US-PATENT-3,650,095	N72-25146*	c 06	NASA-CASE-NPO-11322
		US-PATENT-APPL-SN-6610			NASA-CASE-KSC-10242			US-PATENT-APPL-SN-87550
		US-PATENT-CLASS-29-472.9			US-PATENT-APPL-SN-73834			US-PATENT-CLASS-250-43.5R
		US-PATENT-CLASS-29-473.1			US-PATENT-CLASS-219-109			US-PATENT-CLASS-73-23.1
		US-PATENT-3,602,979			US-PATENT-CLASS-219-234			US-PATENT-3,666,942
N72-22520* #	c 16	NASA-CASE-LAR-10815-1			US-PATENT-CLASS-219-85	N72-25147*	c 06	NASA-CASE-ARC-10325
		US-PATENT-APPL-SN-233587			US-PATENT-CLASS-324-65R			US-PATENT-APPL-SN-63610
N72-22530*	c 17	NASA-CASE-XLE-06461			US-PATENT-3,621,193			US-PATENT-CLASS-260-2.5FP
		US-PATENT-APPL-SN-853855			NASA-CASE-GSC-10361-1			US-PATENT-3,663,464
		US-PATENT-CLASS-75-5B			US-PATENT-APPL-SN-700040	N72-25148*	c 06	NASA-CASE-MFS-13994-2
		US-PATENT-3,623,861			US-PATENT-CLASS-106-84			US-PATENT-APPL-SN-870689
N72-22535*	c 17	NASA-CASE-LEW-10874-1			US-PATENT-3,620,784			US-PATENT-CLASS-260-348SC
		US-PATENT-APPL-SN-68024			NASA-CASE-HQN-10541-3			US-PATENT-3,660,434
		US-PATENT-CLASS-148-32.5			US-PATENT-APPL-SN-822089	N72-25149*	c 06	NASA-CASE-GSC-10565-1
		US-PATENT-CLASS-75-170			US-PATENT-CLASS-350-171			US-PATENT-APPL-SN-822039
		US-PATENT-3,620,718			US-PATENT-3,606,522			US-PATENT-CLASS-195-103.5R
N72-22566*	c 18	NASA-CASE-MFS-20011			NASA-CASE-XNP-09461			US-PATENT-CLASS-195-28N
		US-PATENT-APPL-SN-813338			US-PATENT-APPL-SN-670829			US-PATENT-CLASS-260-211.5
		US-PATENT-CLASS-106-286			US-PATENT-CLASS-239-418			US-PATENT-3,660,240
		US-PATENT-CLASS-106-288B			US-PATENT-CLASS-239-433	N72-25150*	c 06	NASA-CASE-XLE-06774-2
		US-PATENT-CLASS-106-84			US-PATENT-CLASS-239-543			US-PATENT-APPL-SN-5114
		US-PATENT-3,620,791			US-PATENT-3,650,474			US-PATENT-CLASS-117-132
N72-22567*	c 18	NASA-CASE-NPO-11091			NASA-CASE-NPO-11458			US-PATENT-CLASS-117-161
		US-PATENT-APPL-SN-860781			US-PATENT-APPL-SN-36926			US-PATENT-CLASS-260-2.5
		US-PATENT-CLASS-260-2.1E			US-PATENT-CLASS-60-266			US-PATENT-CLASS-260-92.1
		US-PATENT-3,629,161			US-PATENT-CLASS-60-271			US-PATENT-3,666,741
N72-22619*	c 21	NASA-CASE-ARC-10179-1			US-PATENT-3,648,461	N72-25151*	c 06	NASA-CASE-MFS-20979
		US-PATENT-APPL-SN-835058			NASA-CASE-GSC-11514-1			US-PATENT-APPL-SN-100774
		US-PATENT-CLASS-244-114			US-PATENT-APPL-SN-820453			US-PATENT-CLASS-260-185
		US-PATENT-CLASS-340-26			US-PATENT-CLASS-117-201			US-PATENT-CLASS-260-448.2D
		US-PATENT-3,624,598			US-PATENT-CLASS-136-89			US-PATENT-CLASS-260-46.5E
N72-22673*	c 23	NASA-CASE-XER-07896-2			US-PATENT-3,653,970			US-PATENT-CLASS-260-46.5G
		US-PATENT-APPL-SN-36819			NASA-CASE-ARC-10138-1			US-PATENT-CLASS-260-46.5P
		US-PATENT-CLASS-350-310			US-PATENT-APPL-SN-774733			US-PATENT-3,666,718
		US-PATENT-3,620,606			US-PATENT-CLASS-250-83.3H	N72-25152*	c 06	NASA-CASE-NPO-10863-2
N72-22769*	c 28	NASA-CASE-ARC-10106-1			US-PATENT-CLASS-317-247			US-PATENT-APPL-SN-145026
		US-PATENT-APPL-SN-812998			US-PATENT-CLASS-324-61R			US-PATENT-CLASS-260-92.1
		US-PATENT-CLASS-244-3.22			US-PATENT-CLASS-73-355R			US-PATENT-3,663,521
		US-PATENT-3,612,442			US-PATENT-3,657,644	N72-25170*	c 07	NASA-CASE-LAR-10513-1
N72-22770*	c 28	NASA-CASE-LEW-10770-1			NASA-CASE-NPO-11036			US-PATENT-APPL-SN-64723
		US-PATENT-APPL-SN-880246			US-PATENT-APPL-SN-41346			US-PATENT-CLASS-333-7
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-264-92			US-PATENT-CLASS-333-81R
		US-PATENT-3,613,370			US-PATENT-3,658,974			US-PATENT-CLASS-333-98P
N72-22771*	c 28	NASA-CASE-LEW-10835-1			NASA-CASE-XNP-04167-2			US-PATENT-CLASS-333-98R
		US-PATENT-APPL-SN-67815			US-PATENT-APPL-SN-866442			US-PATENT-CLASS-333-98S
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-313-186			US-PATENT-3,649,935
		US-PATENT-3,620,018			US-PATENT-CLASS-313-212	N72-25171*	c 07	NASA-CASE-MFS-21042
N72-22772*	c 28	NASA-CASE-NPO-12072			US-PATENT-CLASS-313-224			US-PATENT-APPL-SN-86417
		US-PATENT-APPL-SN-82647			US-PATENT-CLASS-313-231			US-PATENT-CLASS-102-34.4

N72-25172*	c 07	US-PATENT-CLASS-325-114	N72-25253*	c 09	US-PATENT-CLASS-321-2	N72-25410*	c 14	US-PATENT-CLASS-250-83.3UV
		US-PATENT-CLASS-325-4			US-PATENT-CLASS-321-45ER			US-PATENT-CLASS-350-203
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-321-45R			US-PATENT-3,657,549
		US-PATENT-3,667,044			US-PATENT-3,663,940			NASA-CASE-ERC-10292
		NASA-CASE-NPO-11358			NASA-CASE-GSC-11126-1			US-PATENT-APPL-SN-45519
N72-25173*	c 07	US-PATENT-APPL-SN-116786	N72-25254*	c 09	US-PATENT-APPL-SN-98640	N72-25411*	c 14	US-PATENT-CLASS-350-160R
		US-PATENT-CLASS-179-15BV			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-515
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-321-47			US-PATENT-CLASS-73-521
		US-PATENT-3,665,417			US-PATENT-CLASS-331-113A			US-PATENT-3,657,928
		NASA-CASE-ERC-10324			US-PATENT-3,663,941			NASA-CASE-MSC-15626-1
N72-25174*	c 07	US-PATENT-APPL-SN-54270	N72-25255*	c 09	US-PATENT-APPL-SN-10760	N72-25412*	c 14	US-PATENT-APPL-SN-94374
		US-PATENT-CLASS-178-69.5			US-PATENT-APPL-SN-129071			US-PATENT-CLASS-116-114AH
		US-PATENT-CLASS-325-141			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-325-302			US-PATENT-CLASS-321-45R			US-PATENT-CLASS-73-492
		US-PATENT-CLASS-325-325			US-PATENT-CLASS-331-113A			US-PATENT-3,656,352
N72-25174*	c 07	US-PATENT-CLASS-325-38	N72-25255*	c 09	US-PATENT-3,663,944	N72-25412*	c 14	NASA-CASE-MFS-15063
		US-PATENT-CLASS-325-51			NASA-CASE-LAR-10620-1			US-PATENT-APPL-SN-51477
		US-PATENT-CLASS-325-55			US-PATENT-APPL-SN-125979			US-PATENT-CLASS-178-DIG.8
		US-PATENT-CLASS-325-58			US-PATENT-CLASS-310-10			US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-325-64			US-PATENT-CLASS-310-15			US-PATENT-CLASS-340-227R
N72-25206*	c 08	US-PATENT-CLASS-340-167	N72-25256*	c 09	US-PATENT-3,663,843	N72-25413*	c 14	US-PATENT-3,659,043
		US-PATENT-3,665,313			NASA-CASE-XLA-02609			NASA-CASE-GSC-10879-1
		NASA-CASE-NPO-11264			US-PATENT-APPL-SN-41347			US-PATENT-APPL-SN-889420
		US-PATENT-APPL-SN-36531			US-PATENT-CLASS-333-79			US-PATENT-CLASS-195-127
		US-PATENT-CLASS-343-762			US-PATENT-CLASS-339-143R			US-PATENT-3,666,631
N72-25206*	c 08	US-PATENT-CLASS-343-777	N72-25257*	c 09	US-PATENT-CLASS-339-147R	N72-25414*	c 14	NASA-CASE-NPO-11311
		US-PATENT-CLASS-343-779			US-PATENT-3,663,929			US-PATENT-APPL-SN-57252
		US-PATENT-CLASS-343-786			NASA-CASE-MSC-12395			US-PATENT-CLASS-178-7.92
		US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-134573			US-PATENT-CLASS-350-175FS
		US-PATENT-3,665,481			US-PATENT-CLASS-307-233			US-PATENT-3,663,753
N72-25207*	c 08	NASA-CASE-KSC-10397	N72-25258*	c 09	US-PATENT-CLASS-324-186	N72-25428* #	c 14	NASA-CASE-HQN-10756-1
		US-PATENT-APPL-SN-25488			US-PATENT-CLASS-324-78D			US-PATENT-APPL-SN-236052
		US-PATENT-CLASS-235-154			US-PATENT-CLASS-328-136			NASA-CASE-LEW-10489-1
		US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-328-140			US-PATENT-APPL-SN-889682
		US-PATENT-3,648,275			US-PATENT-3,663,885			US-PATENT-CLASS-117-211
N72-25208*	c 08	NASA-CASE-NPO-11161	N72-25259*	c 09	NASA-CASE-LAR-10253-1	N72-25448*	c 15	US-PATENT-CLASS-117-107
		US-PATENT-APPL-SN-889374			US-PATENT-APPL-SN-99175			US-PATENT-CLASS-117-217
		US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-307-88.3			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-330-4.5			US-PATENT-CLASS-117-93.16D
		US-PATENT-3,648,256			US-PATENT-3,663,886			US-PATENT-CLASS-29-599
N72-25209*	c 08	NASA-CASE-NPO-11338	N72-25260*	c 09	NASA-CASE-GSC-10665-1	N72-25450*	c 15	US-PATENT-3,649,356
		US-PATENT-APPL-SN-89212			US-PATENT-APPL-SN-889422			NASA-CASE-LEW-10450-1
		US-PATENT-CLASS-178-50			US-PATENT-CLASS-117-200			US-PATENT-APPL-SN-880271
		US-PATENT-CLASS-179-15BC			US-PATENT-CLASS-136-89			US-PATENT-CLASS-75-0.58B
		US-PATENT-CLASS-179-15FD			US-PATENT-CLASS-29-198			US-PATENT-CLASS-75-206
N72-25209*	c 08	US-PATENT-CLASS-325-62	N72-25261*	c 09	US-PATENT-3,664,874	N72-25451*	c 15	US-PATENT-CLASS-75-213
		US-PATENT-CLASS-332-21			NASA-CASE-NPO-11283			US-PATENT-3,649,242
		US-PATENT-3,659,053			US-PATENT-APPL-SN-118270			NASA-CASE-NPO-11202
		NASA-CASE-NPO-11194			US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-66004
		US-PATENT-APPL-SN-63532			US-PATENT-3,663,839			US-PATENT-CLASS-285-DIG.21
N72-25210*	c 08	US-PATENT-CLASS-343-12R	N72-25262*	c 09	NASA-CASE-ERC-10224	N72-25452*	c 15	US-PATENT-CLASS-285-3
		US-PATENT-CLASS-343-14			US-PATENT-APPL-SN-868775			US-PATENT-CLASS-285-316
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-29-492			US-PATENT-CLASS-285-33
		US-PATENT-3,659,292			US-PATENT-CLASS-29-497			US-PATENT-CLASS-339-45M
		NASA-CASE-NPO-10636			US-PATENT-CLASS-29-498			US-PATENT-CLASS-339-91B
N72-25210*	c 08	US-PATENT-APPL-SN-77221	N72-25263*	c 09	US-PATENT-CLASS-29-502	N72-25453*	c 15	US-PATENT-3,656,781
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-29-589			NASA-CASE-NPO-10606
		US-PATENT-CLASS-340-146.1AL			US-PATENT-CLASS-29-628			US-PATENT-APPL-SN-8636
		US-PATENT-3,662,337			US-PATENT-3,665,589			US-PATENT-CLASS-251-360
		NASA-CASE-LAR-10163-1			US-PATENT-11078			US-PATENT-3,658,295
N72-25210*	c 08	US-PATENT-APPL-SN-73310	N72-25264*	c 09	NASA-CASE-NPO-11078	N72-25452*	c 15	NASA-CASE-LEW-10965-1
		US-PATENT-CLASS-343-708			US-PATENT-APPL-SN-82280			US-PATENT-APPL-SN-876588
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-307-103			US-PATENT-CLASS-117-124C
		US-PATENT-CLASS-343-873			US-PATENT-CLASS-307-83			US-PATENT-CLASS-117-152
		US-PATENT-3,653,052			US-PATENT-CLASS-323-48			US-PATENT-CLASS-117-16R
N72-25248*	c 09	US-PATENT-3,653,052	N72-25265*	c 09	US-PATENT-CLASS-323-82	N72-25454*	c 15	US-PATENT-CLASS-117-37
		NASA-CASE-NPO-11342			US-PATENT-3,663,828			US-PATENT-CLASS-117-47R
		US-PATENT-APPL-SN-89209			NASA-CASE-LAR-10507-1			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-874177			US-PATENT-CLASS-117-82
		US-PATENT-CLASS-340-324A			US-PATENT-CLASS-195-127			US-PATENT-CLASS-117-93.3
N72-25249*	c 09	US-PATENT-3,648,250	N72-25266*	c 09	US-PATENT-3,649,462	N72-25455*	c 15	US-PATENT-CLASS-204-157.18AG
		NASA-CASE-GSC-10656-1			NASA-CASE-LAR-10548-1			US-PATENT-CLASS-204-49
		US-PATENT-APPL-SN-59969			US-PATENT-APPL-SN-32664			US-PATENT-CLASS-250-65F
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-287-54A			US-PATENT-CLASS-96-36.2
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-52-648			US-PATENT-3,658,569
N72-25249*	c 09	US-PATENT-CLASS-323-17	N72-25267*	c 09	US-PATENT-CLASS-52-655	N72-25453*	c 15	NASA-CASE-KSC-10513
		US-PATENT-CLASS-323-22T			US-PATENT-3,665,670			US-PATENT-APPL-SN-61535
		US-PATENT-3,621,372			NASA-CASE-MFS-20434			US-PATENT-CLASS-187-1
		NASA-CASE-KSC-10565			US-PATENT-APPL-SN-55534			US-PATENT-CLASS-187-20
		US-PATENT-APPL-SN-98517			US-PATENT-CLASS-73-140			US-PATENT-CLASS-187-95
N72-25250*	c 09	US-PATENT-CLASS-315-135	N72-25268*	c 11	US-PATENT-CLASS-73-161	N72-25454*	c 15	US-PATENT-CLASS-254-190
		US-PATENT-CLASS-315-349			US-PATENT-3,665,758			US-PATENT-3,666,051
		US-PATENT-CLASS-330-2			NASA-CASE-NPO-11556			NASA-CASE-MSC-12233-1
		US-PATENT-CLASS-330-59			US-PATENT-APPL-SN-82648			US-PATENT-APPL-SN-73422
		US-PATENT-CLASS-340-332			US-PATENT-CLASS-210-188			US-PATENT-CLASS-52-169
N72-25251*	c 09	US-PATENT-3,659,148	N72-25269*	c 12	US-PATENT-CLASS-310-11	N72-25455*	c 15	US-PATENT-CLASS-52-173
		NASA-CASE-ERC-10048			US-PATENT-3,648,083			US-PATENT-CLASS-52-594
		US-PATENT-APPL-SN-10329			NASA-CASE-NPO-11373			US-PATENT-3,665,669
		US-PATENT-CLASS-307-261			US-PATENT-APPL-SN-81095			NASA-CASE-NPO-11095
		US-PATENT-CLASS-321-18			US-PATENT-CLASS-73-421.5R			US-PATENT-APPL-SN-19585
N72-25252*	c 09	US-PATENT-CLASS-321-2	N72-25323*	c 13	US-PATENT-CLASS-73-422GC	N72-25456*	c 15	US-PATENT-CLASS-239-424
		US-PATENT-3,659,184			US-PATENT-CLASS-73-422TC			US-PATENT-CLASS-60-258
		NASA-CASE-ERC-10268			US-PATENT-3,662,604			US-PATENT-CLASS-60-39.74A
		US-PATENT-APPL-SN-39342			NASA-CASE-ERC-10174			US-PATENT-3,662,547
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				US-PATENT-CLASS-29-504				US-PATENT-CLASS-343-17.5				US-PATENT-CLASS-330-69
				US-PATENT-3,849,865				US-PATENT-CLASS-343-6.5R				US-PATENT-CLASS-330-86
N75-13265*	c 37			NASA-CASE-KSC-10723-1				US-PATENT-CLASS-343-9				US-PATENT-3,872,395
				US-PATENT-APPL-SN-347952				US-PATENT-3,860,921	N75-19519*	c 33		NASA-CASE-NPO-13125-1
				US-PATENT-CLASS-338-162				NASA-CASE-MFS-22088-1				US-PATENT-APPL-SN-319150
				US-PATENT-CLASS-338-75	N75-15874*	c 33		US-PATENT-APPL-SN-426155				US-PATENT-CLASS-235-92DM
				US-PATENT-CLASS-338-97				US-PATENT-CLASS-318-227				US-PATENT-CLASS-235-92LG
				US-PATENT-3,854,113				US-PATENT-CLASS-318-230				US-PATENT-CLASS-235-92R
N75-13266*	c 37			NASA-CASE-NPO-13281-1				US-PATENT-CLASS-318-231				US-PATENT-CLASS-235-92T
				US-PATENT-APPL-SN-412079				US-PATENT-3,860,858				US-PATENT-CLASS-235-92VA
				US-PATENT-CLASS-74-436	N75-15931*	c 35		NASA-CASE-MFS-21761-1				US-PATENT-3,866,022
				US-PATENT-CLASS-74-820				US-PATENT-APPL-SN-337816	N75-19520*	c 33		NASA-CASE-ARC-10364-3
				US-PATENT-3,855,873				US-PATENT-CLASS-200-83N				US-PATENT-APPL-SN-209618
N75-13502*	c 51			NASA-CASE-LAR-11074-1				US-PATENT-CLASS-73-40				US-PATENT-APPL-SN-462844
				US-PATENT-APPL-SN-326364				US-PATENT-CLASS-73-49.2				US-PATENT-CLASS-307-321
				US-PATENT-CLASS-115-103.5				US-PATENT-3,859,845				US-PATENT-CLASS-324-DIG.1
				US-PATENT-CLASS-195-120	N75-15932*	c 35		NASA-CASE-MFS-21045-1				US-PATENT-CLASS-329-166
				US-PATENT-CLASS-195-127				US-PATENT-APPL-SN-411572				US-PATENT-CLASS-329-204
				US-PATENT-3,850,754				US-PATENT-CLASS-73-1R				US-PATENT-CLASS-332-47
N75-13531*	c 54			NASA-CASE-LEW-11581-1				US-PATENT-CLASS-73-379				US-PATENT-3,869,676
				US-PATENT-APPL-SN-327921				US-PATENT-3,859,840	N75-19521*	c 33		NASA-CASE-KSC-10736-1
				US-PATENT-CLASS-128-2.05A	N75-15992*	c 37		NASA-CASE-GSC-11577-1				US-PATENT-APPL-SN-348787
				US-PATENT-CLASS-128-2.05P				US-PATENT-APPL-SN-322997				US-PATENT-CLASS-324-102
				US-PATENT-3,850,169				US-PATENT-CLASS-117-106A				US-PATENT-CLASS-324-113
N75-13539*	c 60			NASA-CASE-ARC-10466-1				US-PATENT-CLASS-117-93.3				US-PATENT-3,869,667
								US-PATENT-CLASS-156-89	N75-19522*	c 33		NASA-CASE-GSC-11844-1

			US-PATENT-APPL-SN-452761				US-PATENT-CLASS-62-288	N75-25041*	c 33	NASA-CASE-ARC-10364-2
			US-PATENT-CLASS-307-227				US-PATENT-CLASS-62-289			US-PATENT-APPL-SN-209618
			US-PATENT-CLASS-321-15				US-PATENT-CLASS-62-290			US-PATENT-APPL-SN-433968
			US-PATENT-CLASS-324-32				US-PATENT-CLASS-62-317			US-PATENT-CLASS-307-321
			US-PATENT-3,869,659				US-PATENT-CLASS-62-93			US-PATENT-CLASS-324-DIG.1
N75-19524*	c 33		NASA-CASE-NPO-13374-1	N75-20140*	c 77		US-PATENT-3,868,830			US-PATENT-CLASS-329-166
			US-PATENT-APPL-SN-449118				NASA-CASE-GSC-11752-1			US-PATENT-CLASS-329-204
			US-PATENT-CLASS-318-137				US-PATENT-APPL-SN-446569			US-PATENT-3,883,812
			US-PATENT-CLASS-318-167				US-PATENT-CLASS-219-497	N75-25122*	c 35	NASA-CASE-NPO-10764-2
			US-PATENT-CLASS-318-176				US-PATENT-CLASS-219-501			US-PATENT-APPL-SN-273519
			US-PATENT-CLASS-318-183				US-PATENT-CLASS-219-505			US-PATENT-APPL-SN-836280
			US-PATENT-3,867,677				US-PATENT-3,869,597			US-PATENT-CLASS-116-114.5
N75-19611*	c 35		NASA-CASE-LAR-11071-1	N75-21485*	c 32		NASA-CASE-MSC-12607-1			US-PATENT-CLASS-117-72
			US-PATENT-APPL-SN-334349				US-PATENT-APPL-SN-407323			US-PATENT-CLASS-73-356
			US-PATENT-CLASS-417-138				US-PATENT-CLASS-178-DIG.12			US-PATENT-3,874,240
			US-PATENT-CLASS-417-36				US-PATENT-CLASS-358-36	N75-25123*	c 35	NASA-CASE-NPO-13214-1
			US-PATENT-CLASS-417-395				US-PATENT-3,875,584			NASA-CASE-NPO-13215-1
			US-PATENT-CLASS-73-221	N75-21486*	c 32		NASA-CASE-MSC-14558-1			US-PATENT-APPL-SN-394149
			US-PATENT-3,864,060				US-PATENT-APPL-SN-428994			US-PATENT-CLASS-178-DIG.29
N75-19612*	c 35		NASA-CASE-LAR-11237-1				US-PATENT-CLASS-178-58A			US-PATENT-CLASS-178-7.2
			US-PATENT-APPL-SN-402868				US-PATENT-CLASS-178-79			US-PATENT-3,883,689
			US-PATENT-CLASS-340-242				US-PATENT-3,875,332	N75-25124*	c 35	NASA-CASE-MFS-21704-1
			US-PATENT-CLASS-73-46	N75-21582*	c 35		NASA-CASE-MFS-22671-1			US-PATENT-APPL-SN-386793
			US-PATENT-CLASS-73-49.2				US-PATENT-APPL-SN-419831			US-PATENT-CLASS-350-3.5
			US-PATENT-3,864,960				US-PATENT-CLASS-178-69A			US-PATENT-3,883,215
N75-19613*	c 35		NASA-CASE-LAR-11207-1				US-PATENT-CLASS-235-181	N75-25185*	c 37	NASA-CASE-NPO-13360-1
			US-PATENT-APPL-SN-385013				US-PATENT-CLASS-324-57PS			US-PATENT-APPL-SN-401920
			US-PATENT-CLASS-178-DIG.20				US-PATENT-CLASS-324-77H			US-PATENT-CLASS-228-1
			US-PATENT-CLASS-250-332				US-PATENT-CLASS-325-67			US-PATENT-CLASS-251-333
			US-PATENT-CLASS-356-186				US-PATENT-3,875,500	N75-25186*	c 37	US-PATENT-3,874,635
			US-PATENT-CLASS-356-189	N75-21631*	c 37		NASA-CASE-LEW-11274-1			NASA-CASE-MFS-22649-1
			US-PATENT-CLASS-356-83				US-PATENT-APPL-SN-380630			US-PATENT-APPL-SN-398901
			US-PATENT-CLASS-356-96				US-PATENT-CLASS-277-134			US-PATENT-CLASS-408-112
			US-PATENT-3,869,212				US-PATENT-CLASS-277-27			US-PATENT-CLASS-408-186
N75-19614*	c 35		NASA-CASE-LAR-11173-1				US-PATENT-CLASS-277-40			US-PATENT-CLASS-408-193
			US-PATENT-APPL-SN-354408				US-PATENT-3,874,677			US-PATENT-CLASS-408-195
			US-PATENT-CLASS-332-2	N75-23910*	c 35		NASA-CASE-NPO-13327-1			US-PATENT-3,877,833
			US-PATENT-CLASS-73-557				US-PATENT-APPL-SN-429437	N75-25503*	c 51	NASA-CASE-ARC-10722-1
			US-PATENT-3,868,856				US-PATENT-CLASS-247-171			US-PATENT-APPL-SN-428995
N75-19615*	c 35		NASA-CASE-MFS-22189-1				US-PATENT-CLASS-250-203			US-PATENT-CLASS-47-1.2
			US-PATENT-APPL-SN-405342				US-PATENT-CLASS-250-211R			US-PATENT-CLASS-47-39
			US-PATENT-CLASS-33-148D				US-PATENT-3,875,404			US-PATENT-CLASS-47-38
			US-PATENT-CLASS-73-143	N75-24716*	c 05		NASA-CASE-MSC-14339-1			US-PATENT-3,882,634
			US-PATENT-3,864,953				US-PATENT-APPL-SN-347953	N75-25706*	c 74	NASA-CASE-HQN-10542-1
N75-19618*	c 35		NASA-CASE-MFS-20932-1				US-PATENT-CLASS-128.2.06E			US-PATENT-APPL-SN-163151
			US-PATENT-APPL-SN-374441				US-PATENT-CLASS-128-DIG.4			US-PATENT-CLASS-178-DIG.25
			US-PATENT-CLASS-250-505				US-PATENT-CLASS-128-2.06B			US-PATENT-CLASS-250-566
			US-PATENT-CLASS-250-508				US-PATENT-3,882,846			US-PATENT-CLASS-350-311
			US-PATENT-CLASS-250-510	N75-24736*	c 07		NASA-CASE-ARC-10754-1			US-PATENT-3,883,436
			US-PATENT-3,869,615				US-PATENT-APPL-SN-398866	N75-25730*	c 76	NASA-CASE-GSC-11425-2
N75-19652*	c 36		NASA-CASE-NPO-13131-1				US-PATENT-CLASS-137-15.1			US-PATENT-APPL-SN-206266
			US-PATENT-APPL-SN-390468				US-PATENT-CLASS-244-53B			US-PATENT-APPL-SN-394206
			US-PATENT-CLASS-178-7.1				US-PATENT-3,883,095			US-PATENT-CLASS-357-23
			US-PATENT-CLASS-250-211R	N75-24758*	c 09		NASA-CASE-GSC-11127-1			US-PATENT-CLASS-357-29
			US-PATENT-CLASS-250-578				US-PATENT-APPL-SN-401466			US-PATENT-CLASS-357-42
			US-PATENT-CLASS-315-169R				US-PATENT-CLASS-318-314			US-PATENT-CLASS-357-52
			US-PATENT-CLASS-340-173LS				US-PATENT-CLASS-318-318			US-PATENT-CLASS-357-91
			US-PATENT-3,865,975				US-PATENT-CLASS-318-341			US-PATENT-CLASS-357-54
N75-19653*	c 36		NASA-CASE-HQN-10844-1				US-PATENT-3,883,785	N75-25914*	c 05	US-PATENT-3,882,530
			US-PATENT-APPL-SN-412080	N75-24774*	c 12		NASA-CASE-NPO-13263-1			NASA-CASE-LAR-11252-1
			US-PATENT-CLASS-356-106LR				US-PATENT-APPL-SN-393523			US-PATENT-APPL-SN-367268
			US-PATENT-3,869,210				US-PATENT-CLASS-73-505			US-PATENT-CLASS-D12-76
N75-19654*	c 36		NASA-CASE-GSC-11746-1				US-PATENT-3,882,732			US-PATENT-CLASS-244-13
			US-PATENT-APPL-SN-393528	N75-24794*	c 14		NASA-CASE-MFS-21488-1			US-PATENT-CLASS-244-15
			US-PATENT-CLASS-331-84.5M				US-PATENT-APPL-SN-359156			US-PATENT-CLASS-244-42DA
			US-PATENT-3,869,680				US-PATENT-CLASS-73-143			US-PATENT-CLASS-244-55
N75-19655*	c 36		NASA-CASE-LAR-11341-1				US-PATENT-3,882,719			US-PATENT-3,884,432
			US-PATENT-APPL-SN-367293	N75-24837*	c 20		NASA-CASE-NPO-13303-1	N75-25915*	c 05	NASA-CASE-ARC-10519-2
			US-PATENT-CLASS-330-4.3				US-PATENT-APPL-SN-457295			US-PATENT-APPL-SN-452767
			US-PATENT-CLASS-331-94.5P				US-PATENT-CLASS-310-10			US-PATENT-CLASS-280-150SB
			US-PATENT-3,868,591				US-PATENT-CLASS-310-4			US-PATENT-CLASS-297-385
N75-19683*	c 37		NASA-CASE-MSC-19095-1				US-PATENT-CLASS-310-40			US-PATENT-CLASS-297-388
			US-PATENT-APPL-SN-415486				US-PATENT-CLASS-310-52			US-PATENT-CLASS-297-389
			US-PATENT-CLASS-219-137				US-PATENT-CLASS-335-216			US-PATENT-3,887,233
			US-PATENT-3,864,542				US-PATENT-CLASS-60-516	N75-26043*	c 25	NASA-CASE-LAR-11144-1
N75-19684*	c 37		NASA-CASE-NPO-13345-1				US-PATENT-CLASS-60-530			US-PATENT-APPL-SN-426405
			US-PATENT-APPL-SN-462705				US-PATENT-CLASS-62-3			US-PATENT-CLASS-117-106A
			US-PATENT-CLASS-204-192				US-PATENT-CLASS-62-467			US-PATENT-CLASS-117-107.2
			US-PATENT-CLASS-204-298				US-PATENT-3,875,435			US-PATENT-CLASS-117-201
			US-PATENT-3,864,239	N75-24981*	c 32		NASA-CASE-GSC-11743-1			US-PATENT-CLASS-118-48
N75-19685*	c 37		NASA-CASE-MFS-21606-1				US-PATENT-APPL-SN-370271			US-PATENT-CLASS-118-49.1
			US-PATENT-APPL-SN-356555				US-PATENT-CLASS-178-66R			US-PATENT-CLASS-148-175
			US-PATENT-CLASS-292-DIG.14				US-PATENT-CLASS-325-30			US-PATENT-CLASS-252-62.3GA
			US-PATENT-CLASS-292-108				US-PATENT-CLASS-325-60			US-PATENT-3,888,705
			US-PATENT-CLASS-292-122	N75-24982*	c 32		US-PATENT-3,878,464	N75-26194*	c 32	NASA-CASE-NPO-13217-1
			US-PATENT-3,869,160				NASA-CASE-NPO-13140-1			US-PATENT-APPL-SN-362145
N75-19686*	c 37		NASA-CASE-MFS-19193-1				US-PATENT-APPL-SN-374422			US-PATENT-CLASS-343-105R
			US-PATENT-APPL-SN-461477				US-PATENT-CLASS-343-100PE			US-PATENT-CLASS-343-112D
			US-PATENT-CLASS-285-114				US-PATENT-CLASS-343-56C			US-PATENT-3,889,264
			US-PATENT-CLASS-285-226				US-PATENT-3,883,872	N75-26195*	c 32	NASA-CASE-NPO-13321-1
			US-PATENT-3,869,151	N75-25040*	c 33		NASA-CASE-GSC-11623-1			US-PATENT-APPL-SN-455163
N75-20139*	c 77		NASA-CASE-MSC-14143-1				US-PATENT-APPL-SN-389929			US-PATENT-CLASS-178-69.5R
			US-PATENT-APPL-SN-393526				US-PATENT-CLASS-331-1A			US-PATENT-CLASS-179-158S
			US-PATENT-CLASS-165-110				US-PATENT-CLASS-331-18			US-PATENT-CLASS-325-4
			US-PATENT-CLASS-165-111				US-PATENT-CLASS-331-25			US-PATENT-3,889,064
			US-PATENT-CLASS-62-285				US-PATENT-3,883,817	N75-26243*	c 33	NASA-CASE-GSC-11744-1

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		US-PATENT-CLASS-73-88.5				US-PATENT-CLASS-279-89				US-PATENT-CLASS-73-182
		US-PATENT-3,905,356				US-PATENT-CLASS-29-26A				US-PATENT-CLASS-73-212
N75-31330*	c 33	NASA-CASE-NPO-13426-1				US-PATENT-CLASS-294-116				US-PATENT-3,914,997
		US-PATENT-APPL-SN-45053				US-PATENT-CLASS-294-86.33		N76-14430*	c 35	NASA-CASE-NPO-13170-1
		US-PATENT-CLASS-307-225R				US-PATENT-3,907,312				US-PATENT-APPL-SN-382261
		US-PATENT-CLASS-328-41		N75-33640*	c 52	NASA-CASE-LEW-12051-1				US-PATENT-CLASS-338-6
		US-PATENT-3,906,374				US-PATENT-APPL-SN-397478				US-PATENT-CLASS-73-88.5R
N75-31331*	c 33	NASA-CASE-NPO-11156-2				US-PATENT-CLASS-128-230				US-PATENT-3,914,991
		US-PATENT-APPL-SN-174684				US-PATENT-CLASS-128-305		N76-14431*	c 35	NASA-CASE-LEW-11915-1
		US-PATENT-CLASS-307-238				US-PATENT-3,906,954				US-PATENT-APPL-SN-474744
		US-PATENT-CLASS-340-173CA		N76-14158*	c 15	NASA-CASE-LAR-11051-1				US-PATENT-CLASS-137-15.2
		US-PATENT-CLASS-357-24				US-PATENT-APPL-SN-384773				US-PATENT-CLASS-235-151.34
		US-PATENT-CLASS-357-7				US-PATENT-CLASS-244-165				US-PATENT-CLASS-60-39.29
		US-PATENT-3,906,296				US-PATENT-CLASS-244-3.21				US-PATENT-3,911,260
N75-31332*	c 33	NASA-CASE-NPO-13348-1				US-PATENT-CLASS-74-5.7		N76-14447*	c 36	NASA-CASE-ARC-10642-1
		US-PATENT-APPL-SN-452770				US-PATENT-3,915,416				US-PATENT-APPL-SN-446562
		US-PATENT-CLASS-250-238		N76-14186*	c 18	NASA-CASE-MS-12559-1				US-PATENT-CLASS-356-106R
		US-PATENT-CLASS-250-370				US-PATENT-APPL-SN-370582				US-PATENT-CLASS-285-28
		US-PATENT-CLASS-357-5				US-PATENT-CLASS-178-DIG.20				US-PATENT-3,915,572
		US-PATENT-3,906,231				US-PATENT-CLASS-244-161		N76-14460*	c 37	NASA-CASE-MFS-19194-1
N75-31426*	c 36	NASA-CASE-ARC-10370-1				US-PATENT-CLASS-33-286				US-PATENT-APPL-SN-483850
		US-PATENT-APPL-SN-137391				US-PATENT-CLASS-35-12				US-PATENT-CLASS-285-226
		US-PATENT-CLASS-331-94.5G				US-PATENT-CLASS-356-153				US-PATENT-CLASS-285-265
		US-PATENT-CLASS-331-94.5P				US-PATENT-3,910,533				US-PATENT-3,915,482
		US-PATENT-3,906,397		N76-14190*	c 20	NASA-CASE-LEW-11593-1		N76-14461*	c 37	NASA-CASE-LEW-11694-2
N75-31427*	c 36	NASA-CASE-NPO-13175-1				US-PATENT-APPL-SN-363691				US-PATENT-APPL-SN-352381
		US-PATENT-APPL-SN-374423				US-PATENT-CLASS-60-39.23				US-PATENT-APPL-SN-462903
		US-PATENT-CLASS-331-94.5C				US-PATENT-CLASS-60-39.29				US-PATENT-CLASS-29-421
		US-PATENT-CLASS-350-161				US-PATENT-CLASS-60-39.74R				US-PATENT-CLASS-72-363
		US-PATENT-CLASS-350-96WG				US-PATENT-3,910,035				US-PATENT-CLASS-72-63
		US-PATENT-3,906,393		N76-14191*	c 20	NASA-CASE-LEW-11118-2				US-PATENT-CLASS-72-63
N75-31446*	c 37	NASA-CASE-LEW-11925-1				US-PATENT-APPL-SN-436316		N76-14463*	c 37	US-PATENT-3,914,969
		US-PATENT-APPL-SN-450505				US-PATENT-CLASS-239-127.3				NASA-CASE-MFS-22323-1
		US-PATENT-CLASS-308-191				US-PATENT-CLASS-60-265				US-PATENT-APPL-SN-474745
		US-PATENT-CLASS-308-195				US-PATENT-CLASS-60-267				US-PATENT-CLASS-137-515.3
		US-PATENT-CLASS-308-201				US-PATENT-3,910,039				US-PATENT-CLASS-137-550
		US-PATENT-3,905,660		N76-14203*	c 24	NASA-CASE-NPO-12122-1				US-PATENT-CLASS-210-429
N75-32441*	c 36	NASA-CASE-NPO-13449-1				US-PATENT-APPL-SN-401921				US-PATENT-CLASS-251-149.6
		US-PATENT-APPL-SN-420813				US-PATENT-CLASS-149-36				US-PATENT-3,910,307
		US-PATENT-CLASS-310-11				US-PATENT-CLASS-423-407		N76-14595*	c 44	NASA-CASE-MFS-22562-1
		US-PATENT-CLASS-330-4.3				US-PATENT-3,919,014				US-PATENT-APPL-SN-458484
		US-PATENT-CLASS-331-94.5PE		N76-14204*	c 24	NASA-CASE-MS-12568-1				US-PATENT-CLASS-126-270
		US-PATENT-CLASS-331-94.5G				US-PATENT-APPL-SN-325784				US-PATENT-CLASS-136-206
		US-PATENT-3,906,398				US-PATENT-CLASS-136-146				US-PATENT-CLASS-204-32R
N75-32465* #	c 37	NASA-CASE-ARC-10907-1				US-PATENT-CLASS-136-148				US-PATENT-CLASS-204-33
		US-PATENT-APPL-SN-619986				US-PATENT-CLASS-162-102				US-PATENT-CLASS-204-38A
N75-32581*	c 44	NASA-CASE-MFS-21628-1				US-PATENT-CLASS-162-153				US-PATENT-CLASS-204-40
		US-PATENT-APPL-SN-421702				US-PATENT-CLASS-162-222				US-PATENT-CLASS-204-42
		US-PATENT-CLASS-126-271				US-PATENT-CLASS-162-228				US-PATENT-CLASS-204-49
		US-PATENT-CLASS-165-105				US-PATENT-3,910,814				US-PATENT-CLASS-29-194
		US-PATENT-CLASS-244-173		N76-14264*	c 27	NASA-CASE-MS-14182-1				US-PATENT-CLASS-29-195
		US-PATENT-CLASS-60-641				US-PATENT-APPL-SN-419748				US-PATENT-CLASS-29-197
		US-PATENT-CLASS-60-659				US-PATENT-CLASS-403-179		N76-14600*	c 44	US-PATENT-3,920,413
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			US-PATENT-CLASS-313-22			US-PATENT-CLASS-260-45.9R	US-PATENT-4,085,004
			US-PATENT-CLASS-62-514R			US-PATENT-CLASS-427-386	NASA-CASE-NPO-11954-1
			US-PATENT-4,077,231			US-PATENT-CLASS-427-388A	US-PATENT-APPL-SN-229287
N78-25319*	c 33		NASA-CASE-NPO-13909-1			US-PATENT-CLASS-428-313	US-PATENT-CLASS-179-100.2CH
			US-PATENT-APPL-SN-744477			US-PATENT-CLASS-428-332	US-PATENT-CLASS-340-174.1M
			US-PATENT-CLASS-324-57DE			US-PATENT-CLASS-428-921	US-PATENT-CLASS-340-174YC
			US-PATENT-CLASS-324-57SS			US-PATENT-4,088,806	US-PATENT-CLASS-350-151
			US-PATENT-CLASS-324-58A	N78-27184* #	c 24	NASA-CASE-ARC-11040-2	US-PATENT-3,775,570
			US-PATENT-4,084,132			US-PATENT-APPL-SN-820878	NASA-CASE-MS-19706-1
N78-25350*	c 34		NASA-CASE-MS-19568-1	N78-27226*	c 25	NASA-CASE-LEW-10518-3	US-PATENT-APPL-SN-767911
			US-PATENT-APPL-SN-681000			US-PATENT-APPL-SN-394207	US-PATENT-CLASS-239-265.25
			US-PATENT-CLASS-428-913			US-PATENT-CLASS-176-11	US-PATENT-CLASS-73-147
			US-PATENT-CLASS-428-93			US-PATENT-CLASS-176-16	US-PATENT-4,091,665
			US-PATENT-CLASS-428-94			US-PATENT-CLASS-250-400	NASA-CASE-ARC-11008-1
			US-PATENT-CLASS-428-95			US-PATENT-CLASS-250-429	US-PATENT-APPL-SN-708951
			US-PATENT-CLASS-428-96			US-PATENT-CLASS-250-492B	US-PATENT-CLASS-260-2.5N
			US-PATENT-CLASS-428-97			US-PATENT-4,088,532	US-PATENT-CLASS-260-47CP
			US-PATENT-CLASS-49-DIG.1	N78-27326*	c 33	NASA-CASE-MFS-23312-1	US-PATENT-CLASS-260-63N
			US-PATENT-CLASS-49-479			US-PATENT-APPL-SN-699012	US-PATENT-CLASS-260-78.41
			US-PATENT-CLASS-49-485			US-PATENT-CLASS-29-571	US-PATENT-4,092,274
			US-PATENT-4,078,110			US-PATENT-CLASS-29-578	NASA-CASE-ARC-11057-1
N78-25351*	c 34		NASA-CASE-LEW-12718-1			US-PATENT-CLASS-357-91	US-PATENT-APPL-SN-807762
			US-PATENT-APPL-SN-779428			US-PATENT-4,087,902	US-PATENT-CLASS-350-165
			US-PATENT-CLASS-137-484.2	N78-27357*	c 34	NASA-CASE-LEW-11877-1	US-PATENT-CLASS-350-175NG
			US-PATENT-CLASS-137-501			US-PATENT-APPL-SN-708660	US-PATENT-CLASS-427-164
			US-PATENT-CLASS-137-505.16			US-PATENT-CLASS-431-10	US-PATENT-CLASS-427-40
			US-PATENT-4,084,612			US-PATENT-CLASS-431-328	US-PATENT-CLASS-427-41
N78-25391*	c 35		NASA-CASE-NPO-13948-1			US-PATENT-CLASS-431-7	US-PATENT-CLASS-428-411
			US-PATENT-APPL-SN-752748			US-PATENT-CLASS-60-39.65	US-PATENT-CLASS-428-412
			US-PATENT-CLASS-204-195W			US-PATENT-CLASS-60-39.69R	US-PATENT-CLASS-428-422
			US-PATENT-CLASS-73-336.5			US-PATENT-4,087,962	US-PATENT-CLASS-428-447
			US-PATENT-4,083,765	N78-27384*	c 35	NASA-CASE-LAR-11973-1	US-PATENT-CLASS-428-515
N78-25426*	c 37		NASA-CASE-MS-12731-1			US-PATENT-APPL-SN-821681	US-PATENT-CLASS-428-523
			US-PATENT-APPL-SN-690816			US-PATENT-CLASS-73-170A	US-PATENT-CLASS-428-538
			US-PATENT-CLASS-137-505.25			US-PATENT-CLASS-73-425.4R	US-PATENT-4,091,166
			US-PATENT-CLASS-137-625.3			US-PATENT-CLASS-73-61R	NASA-CASE-NPO-14103-1
			US-PATENT-CLASS-137-625.38			US-PATENT-4,089,209	US-PATENT-APPL-SN-797210
			US-PATENT-4,083,380	N78-27402*	c 36	NASA-CASE-NPO-13945-1	US-PATENT-CLASS-149-105
N78-25527*	c 44		NASA-CASE-LEW-12552-1			US-PATENT-APPL-SN-704180	US-PATENT-CLASS-149-111
			US-PATENT-APPL-SN-770869			US-PATENT-CLASS-331-94.5G	US-PATENT-CLASS-149-19.4
			US-PATENT-CLASS-136-89CC			US-PATENT-CLASS-331-94.5P	US-PATENT-CLASS-149-19.8
			US-PATENT-CLASS-29-572			US-PATENT-CLASS-331-94.5PE	US-PATENT-CLASS-149-88
			US-PATENT-CLASS-357-30			US-PATENT-4,088,965	US-PATENT-CLASS-149-92
			US-PATENT-CLASS-357-65	N78-27423*	c 37	NASA-CASE-MS-16270-1	US-PATENT-CLASS-149-93
			US-PATENT-CLASS-357-67			US-PATENT-APPL-SN-837260	US-PATENT-4,092,188
			US-PATENT-CLASS-427-261			US-PATENT-CLASS-269-21	NASA-CASE-NPO-14022-1
			US-PATENT-CLASS-427-75			US-PATENT-CLASS-269-266	US-PATENT-APPL-SN-780728
			US-PATENT-4,082,569			US-PATENT-4,088,312	US-PATENT-CLASS-343-781CA
N78-25528*	c 44		NASA-CASE-LEW-12185-1	N78-27424*	c 37	NASA-CASE-LAR-11889-2	US-PATENT-CLASS-343-782
			US-PATENT-APPL-SN-746269			US-PATENT-APPL-SN-662182	US-PATENT-CLASS-343-837
			US-PATENT-CLASS-136-89H			US-PATENT-APPL-SN-807703	US-PATENT-4,092,648
			US-PATENT-CLASS-136-89P			US-PATENT-CLASS-308-10	NASA-CASE-GSC-11883-2
			US-PATENT-CLASS-29-572			US-PATENT-CLASS-73-178R	US-PATENT-APPL-SN-596787
			US-PATENT-CLASS-29-628			US-PATENT-4,088,018	US-PATENT-APPL-SN-747675
			US-PATENT-4,083,097	N78-27425*	c 37	NASA-CASE-ARC-10981-1	US-PATENT-CLASS-60-527
N78-25529*	c 44		NASA-CASE-LEW-12541-1			US-PATENT-APPL-SN-738218	US-PATENT-CLASS-74-100R
			US-PATENT-APPL-SN-790637			US-PATENT-CLASS-248-178	US-PATENT-4,010,455
			US-PATENT-CLASS-136-89CC			US-PATENT-CLASS-248-186	US-PATENT-4,092,874
			US-PATENT-CLASS-136-89H			US-PATENT-4,088,291	NASA-CASE-NPO-13581-2
			US-PATENT-CLASS-136-89P			US-PATENT-CLASS-12148-1	US-PATENT-APPL-SN-590975
			US-PATENT-CLASS-156-633	N78-27515*	c 44	NASA-CASE-NPO-1209415	US-PATENT-APPL-SN-811815
			US-PATENT-CLASS-29-572			US-PATENT-CLASS-136-89P	US-PATENT-CLASS-126-271
			US-PATENT-4,084,985			US-PATENT-4,089,705	US-PATENT-CLASS-237-1A
N78-25530*	c 44		NASA-CASE-LEW-12649-1	N78-27733*	c 51	NASA-CASE-ARC-10917-1	US-PATENT-4,091,800
			US-PATENT-APPL-SN-720521			US-PATENT-APPL-SN-672223	NASA-CASE-NPO-13813-1
			US-PATENT-CLASS-427-385B			US-PATENT-CLASS-119-29	NASA-CASE-NPO-13914-1
			US-PATENT-CLASS-427-385C			US-PATENT-4,088,094	US-PATENT-APPL-SN-765139
			US-PATENT-CLASS-429-254	N78-27904*	c 74	NASA-CASE-LAR-11869-1	US-PATENT-CLASS-126-270
			US-PATENT-4,085,241			US-PATENT-APPL-SN-740155	US-PATENT-CLASS-126-271
N78-25531*	c 44		NASA-CASE-MFS-23270-1			US-PATENT-CLASS-356-120	US-PATENT-CLASS-350-299
			US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-167	US-PATENT-4,091,798
			US-PATENT-CLASS-320-13	N78-27913*	c 75	US-PATENT-4,088,408	NASA-CASE-NPO-13937-1
			US-PATENT-CLASS-320-15			NASA-CASE-MFS-22906-1	US-PATENT-APPL-SN-718137
			US-PATENT-CLASS-320-32			US-PATENT-APPL-SN-684807	US-PATENT-CLASS-201-17
			US-PATENT-CLASS-320-39			US-PATENT-CLASS-29-81C	US-PATENT-CLASS-44-1R
			US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3	US-PATENT-CLASS-44-2
			US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2	US-PATENT-4,081,250
N78-27121*	c 07		NASA-CASE-LAR-11919-1			US-PATENT-4,088,926	NASA-CASE-ARC-11058-1
			US-PATENT-APPL-SN-672221	N78-28411*	c 35	NASA-CASE-KSC-11035-1	US-PATENT-APPL-SN-753965
			US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874	US-PATENT-CLASS-2-2.1A
			US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130	US-PATENT-CLASS-285-235
			US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32	US-PATENT-4,091,464
			US-PATENT-4,088,270			US-PATENT-CLASS-324-74	NASA-CASE-ARC-11100-1
N78-27176* #	c 20		NASA-CASE-MFS-23642-2			US-PATENT-4,088,951	US-PATENT-APPL-SN-780569
			US-PATENT-APPL-SN-923758	N78-28594*	c 44	NASA-CASE-NPO-13821-1	US-PATENT-CLASS-2-2.1A

N78-32086*	c 05	US-PATENT-4,091,465	US-PATENT-CLASS-325-159	N78-33913*	c 74	NASA-CASE-NPO-10233-1
		NASA-CASE-LAR-11932-1	US-PATENT-CLASS-325-187			US-PATENT-APPL-SN-716885
		US-PATENT-APPL-SN-718244	US-PATENT-CLASS-333-17R			US-PATENT-CLASS-250-218
		US-PATENT-CLASS-244-218	US-PATENT-CLASS-333-81R			US-PATENT-CLASS-250-227
		US-PATENT-CLASS-244-45A	US-PATENT-4,092,617			US-PATENT-CLASS-250-239
		US-PATENT-CLASS-244-46	NASA-CASE-LEW-12791-1			US-PATENT-CLASS-356-208
		US-PATENT-4,093,156	US-PATENT-APPL-SN-801432			US-PATENT-3,573,470
N78-32168* #	c 15	NASA-CASE-LAR-12264-1	US-PATENT-CLASS-363-101	N79-10057*	c 07	NASA-CASE-LEW-12232-1
		US-PATENT-APPL-SN-943087	US-PATENT-CLASS-363-16			US-PATENT-APPL-SN-776029
N78-32179*	c 20	NASA-CASE-NPO-11458A	US-PATENT-CLASS-363-60			US-PATENT-CLASS-415-115
		US-PATENT-APPL-SN-48621	US-PATENT-4,092,712			US-PATENT-CLASS-415-116
		US-PATENT-CLASS-102-103	NASA-CASE-ARC-11036-1			US-PATENT-CLASS-60-39.14
		US-PATENT-CLASS-149-19.4	US-PATENT-APPL-SN-740457			US-PATENT-4,117,669
		US-PATENT-CLASS-149-42	US-PATENT-CLASS-33-366	N79-10162*	c 25	NASA-CASE-ARC-11053-1
		US-PATENT-CLASS-149-43	US-PATENT-4,094,073			US-PATENT-APPL-SN-814378
		US-PATENT-CLASS-149-44	NASA-CASE-MFS-23363-1			US-PATENT-CLASS-23-252R
		US-PATENT-CLASS-149-76	US-PATENT-APPL-SN-730046			US-PATENT-CLASS-423-581
		US-PATENT-CLASS-149-83	US-PATENT-CLASS-324-173			US-PATENT-4,101,644
		US-PATENT-CLASS-149-85	US-PATENT-CLASS-324-207	N79-10163*	c 25	NASA-CASE-NPO-13274-1
		US-PATENT-4,116,131	US-PATENT-4,093,917			US-PATENT-APPL-SN-406296
N78-32229*	c 26	NASA-CASE-ARC-10992-1	NASA-CASE-LAR-11617-2			US-PATENT-CLASS-204-180S
		US-PATENT-APPL-SN-760810	US-PATENT-APPL-SN-547072			US-PATENT-CLASS-204-299
		US-PATENT-CLASS-204-164	US-PATENT-APPL-SN-668771			US-PATENT-3,932,262
		US-PATENT-CLASS-204-175	US-PATENT-CLASS-324-249	N79-10262*	c 32	NASA-CASE-NPO-13941-1
		US-PATENT-CLASS-423-582	US-PATENT-4,088,954			US-PATENT-APPL-SN-774384
		US-PATENT-CLASS-423-583	NASA-CASE-MFS-23114-1			US-PATENT-CLASS-307-233R
		US-PATENT-4,094,758	US-PATENT-APPL-SN-686331			US-PATENT-CLASS-324-77B
N78-32256*	c 27	NASA-CASE-MSC-14903-1	US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-324-77C
		US-PATENT-APPL-SN-706424	US-PATENT-CLASS-356-72			US-PATENT-4,118,666
		US-PATENT-CLASS-260-2P	US-PATENT-CLASS-356-73	N79-10263*	c 32	NASA-CASE-MSC-12743-1
		US-PATENT-CLASS-260-551P	US-PATENT-CLASS-73-603			US-PATENT-APPL-SN-765167
		US-PATENT-CLASS-260-606-5P	US-PATENT-4,093,382			US-PATENT-CLASS-325-41
		US-PATENT-CLASS-260-959	NASA-CASE-LAR-11208-1			US-PATENT-CLASS-340-146.1AX
		US-PATENT-CLASS-526-13	US-PATENT-APPL-SN-710036			US-PATENT-CLASS-340-146.1E
		US-PATENT-CLASS-526-23	US-PATENT-CLASS-417-88			US-PATENT-4,100,531
		US-PATENT-CLASS-526-27	US-PATENT-CLASS-60-39.07	N79-10264*	c 32	NASA-CASE-MFS-22234-1
		US-PATENT-CLASS-526-275	US-PATENT-CLASS-60-39.14			US-PATENT-APPL-SN-730778
		US-PATENT-CLASS-526-276	US-PATENT-CLASS-60-39.33			US-PATENT-CLASS-343-6R
		US-PATENT-CLASS-526-278	US-PATENT-CLASS-98-1.5			US-PATENT-CLASS-343-9
		US-PATENT-CLASS-526-49	US-PATENT-4,091,613			US-PATENT-4,118,701
		US-PATENT-CLASS-526-50	NASA-CASE-KSC-11034-1	N79-10337*	c 33	NASA-CASE-KSC-11018-1
		US-PATENT-CLASS-544-195	US-PATENT-APPL-SN-782481			US-PATENT-APPL-SN-782693
		US-PATENT-4,092,466	US-PATENT-CLASS-60-641			US-PATENT-CLASS-324-133
N78-32260*	c 27	NASA-CASE-ARC-11051-1	US-PATENT-CLASS-60-671			US-PATENT-CLASS-324-72
		US-PATENT-APPL-SN-736910	US-PATENT-4,087,975			US-PATENT-CLASS-324-96
		US-PATENT-CLASS-106-48	NASA-CASE-MSC-14805-1			US-PATENT-4,100,487
		US-PATENT-CLASS-106-54	US-PATENT-APPL-SN-688856	N79-10338*	c 33	NASA-CASE-GSC-12228-1
		US-PATENT-CLASS-427-215	US-PATENT-CLASS-340-213R			US-PATENT-APPL-SN-858764
		US-PATENT-CLASS-427-376A	US-PATENT-CLASS-340-262			US-PATENT-CLASS-324-57R
		US-PATENT-CLASS-427-376B	US-PATENT-CLASS-340-279			US-PATENT-CLASS-324-83D
		US-PATENT-CLASS-427-379	US-PATENT-CLASS-340-285			US-PATENT-CLASS-324-85
		US-PATENT-CLASS-427-380	US-PATENT-CLASS-340-309.1			US-PATENT-CLASS-328-163
		US-PATENT-CLASS-428-312	US-PATENT-4,092,633			US-PATENT-4,118,665
		US-PATENT-CLASS-428-325	NASA-CASE-ARC-11059-1	N79-10339*	c 33	NASA-CASE-LEW-12013-1
		US-PATENT-CLASS-428-331	US-PATENT-APPL-SN-753978			US-PATENT-APPL-SN-768795
		US-PATENT-CLASS-428-341	US-PATENT-CLASS-126-142.7			US-PATENT-CLASS-301-82
		US-PATENT-CLASS-428-406	US-PATENT-CLASS-62-259			US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-428-427	US-PATENT-4,095,593			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-428-428	NASA-CASE-GSC-12083-1			US-PATENT-CLASS-330-43
		US-PATENT-CLASS-428-446	US-PATENT-APPL-SN-643897			US-PATENT-4,118,671
		US-PATENT-CLASS-428-920	US-PATENT-CLASS-350-170	N79-10389*	c 35	NASA-CASE-MFS-23461-1
		US-PATENT-CLASS-65-30R	US-PATENT-CLASS-350-173			US-PATENT-APPL-SN-694406
		US-PATENT-CLASS-65-60D	US-PATENT-CLASS-350-174			US-PATENT-CLASS-250-475
		US-PATENT-4,093,771	US-PATENT-CLASS-350-286			US-PATENT-CLASS-252-301.1R
N78-32261*	c 27	NASA-CASE-LAR-11828-1	US-PATENT-CLASS-350-320			US-PATENT-CLASS-252-301.16
		US-PATENT-APPL-SN-448321	US-PATENT-4,093,354			US-PATENT-CLASS-96-27R
		US-PATENT-APPL-SN-562992	NASA-CASE-ARC-11039-1			US-PATENT-CLASS-96-60R
		US-PATENT-CLASS-260-47CP	US-PATENT-APPL-SN-750655			US-PATENT-4,101,780
		US-PATENT-CLASS-260-49	US-PATENT-CLASS-351-166	N79-10390*	c 35	NASA-CASE-LAR-12260-1
		US-PATENT-CLASS-260-63N	US-PATENT-CLASS-427-164			US-PATENT-CLASS-73-579
		US-PATENT-CLASS-260-63R	US-PATENT-CLASS-427-302			US-PATENT-CLASS-73-589
		US-PATENT-CLASS-260-65	US-PATENT-CLASS-427-322			US-PATENT-4,117,731
		US-PATENT-CLASS-260-78TF	US-PATENT-CLASS-427-38	N79-10391*	c 35	NASA-CASE-NPO-13862-1
		US-PATENT-4,094,862	US-PATENT-CLASS-427-387			US-PATENT-APPL-SN-744577
N78-32262*	c 27	NASA-CASE-MSC-14331-3	US-PATENT-CLASS-427-41			US-PATENT-CLASS-324-77K
		US-PATENT-APPL-SN-657998	US-PATENT-CLASS-427-44			US-PATENT-CLASS-343-17.2PC
		US-PATENT-CLASS-264-130	US-PATENT-CLASS-428-412			US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-264-184	US-PATENT-CLASS-428-447			US-PATENT-CLASS-343-5W
		US-PATENT-CLASS-264-211	US-PATENT-4,096,315			US-PATENT-4,101,891
		US-PATENT-CLASS-264-236	NASA-CASE-LEW-12496-1	N79-10418*	c 37	NASA-CASE-LEW-12569-1
		US-PATENT-4,094,943	US-PATENT-APPL-SN-668971			US-PATENT-APPL-SN-792069
N78-32338*	c 33	NASA-CASE-GSC-12137-1	US-PATENT-CLASS-29-463			US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-808510	US-PATENT-CLASS-416-214A			US-PATENT-CLASS-308-121
		US-PATENT-CLASS-329-124	US-PATENT-CLASS-416-244A			US-PATENT-CLASS-308-160
		US-PATENT-CLASS-331-12	US-PATENT-CLASS-74-572			US-PATENT-CLASS-308-163
		US-PATENT-CLASS-331-4	US-PATENT-4,097,194			US-PATENT-CLASS-308-172
		US-PATENT-CLASS-331-64	NASA-CASE-NPO-08835-1			US-PATENT-CLASS-308-5R
		US-PATENT-4,092,606	US-PATENT-APPL-SN-588721			US-PATENT-CLASS-308-9
N78-32339*	c 33	NASA-CASE-GSC-12145-1	US-PATENT-CLASS-260-28.5			US-PATENT-4,099,799
		US-PATENT-APPL-SN-769149	US-PATENT-3,527,724	N79-10419*	c 37	NASA-CASE-FRC-10111-1
		US-PATENT-CLASS-307-229	NASA-CASE-NPO-13763-1			US-PATENT-APPL-SN-713027
		US-PATENT-CLASS-307-230	US-PATENT-APPL-SN-718268			US-PATENT-CLASS-30-90.6
		US-PATENT-CLASS-328-145	US-PATENT-CLASS-123-DIG.12			US-PATENT-CLASS-81-9.5R
		US-PATENT-4,091,329	US-PATENT-CLASS-123-1A			US-PATENT-4,117,749
N78-32340*	c 33	NASA-CASE-GSC-12146-1	US-PATENT-CLASS-123-3	N79-10420*	c 37	NASA-CASE-NPO-14014-1
		US-PATENT-APPL-SN-782480	US-PATENT-4,112,875			US-PATENT-APPL-SN-826204

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N79-13289*	c 34	US-PATENT-4,107,919	US-PATENT-CLASS-343-14	US-PATENT-CLASS-350-293
		NASA-CASE-LEW-12441-1	US-PATENT-CLASS-364-458	US-PATENT-CLASS-350-320
		US-PATENT-APPL-SN-559846	US-PATENT-CLASS-364-604	US-PATENT-4,131,336
		US-PATENT-CLASS-165-146	US-PATENT-CLASS-364-728	N79-14749* c 52
		US-PATENT-CLASS-165-169	US-PATENT-4,112,497	NASA-CASE-NPO-13930-1
		US-PATENT-CLASS-239-127.1	US-PATENT-APPL-SN-14019-1	US-PATENT-APPL-SN-700467
		US-PATENT-CLASS-60-267	US-PATENT-APPL-SN-843308	US-PATENT-CLASS-128-214D
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		NASA-CASE-MFS-28545-1			US-PATENT-CLASS-83-649				NASA-CASE-NPO-17896-1-CU	
		US-PATENT-APPL-SN-674636			US-PATENT-5,005,457				US-PATENT-APPL-SN-560691	
N91-25316*	c 32	INT-PATENT-CLASS-H04B-1/10	N91-26918*	c 74	NASA-CASE-NPO-17512-1-CU				US-PATENT-CLASS-329-304	
		NASA-CASE-NPO-16987-1-CU			US-PATENT-APPL-SN-310992				US-PATENT-CLASS-375-53	
		US-PATENT-APPL-SN-203374			US-PATENT-CLASS-350-353				US-PATENT-CLASS-375-56	
		US-PATENT-CLASS-375-53			US-PATENT-CLASS-350-354				US-PATENT-CLASS-375-85	
		US-PATENT-CLASS-375-56			US-PATENT-CLASS-350-358				US-PATENT-CLASS-375-86	
		US-PATENT-CLASS-375-85			US-PATENT-CLASS-364-713				US-PATENT-5,017,883	
		US-PATENT-CLASS-375-97			US-PATENT-CLASS-364-822		N91-27478*	c 33	INT-PATENT-CLASS-H01M-4/04	
		US-PATENT-5,007,068			US-PATENT-CLASS-364-837				INT-PATENT-CLASS-H01M-4/58	
N91-25317*	c 32	INT-PATENT-CLASS-G06F-15/20			US-PATENT-CLASS-364-841				NASA-CASE-NPO-17809-1-CU	
		NASA-CASE-MSC-21334-1			US-PATENT-5,005,954				US-PATENT-APPL-SN-503409	
		US-PATENT-APPL-SN-292130	N91-26966*	c 76	NAS 1.71:LEW-15222-1				US-PATENT-CLASS-29-623.5	
		US-PATENT-CLASS-364-578			NASA-CASE-LEW-15222-1				US-PATENT-CLASS-429-223	
		US-PATENT-5,005,147			US-PATENT-APPL-SN-718315				US-PATENT-5,019,470	
N91-25318*	c 32	INT-PATENT-CLASS-H04L-27/18	N91-27139*	c 02	INT-PATENT-CLASS-B64C-17/00		N91-27479*	c 33	INT-PATENT-CLASS-G05F-1/12	
		NASA-CASE-NPO-17853-1-CU			NASA-CASE-LAR-14322-1				NASA-CASE-GSC-13280-1	
		US-PATENT-APPL-SN-443539			US-PATENT-APPL-SN-603335				US-PATENT-APPL-SN-418373	
		US-PATENT-CLASS-329-304			US-PATENT-CLASS-244-113				US-PATENT-CLASS-323-311	
		US-PATENT-CLASS-375-53			US-PATENT-CLASS-244-139				US-PATENT-CLASS-323-312	
		US-PATENT-CLASS-375-86			US-PATENT-CLASS-244-75R				US-PATENT-5,021,729	
		US-PATENT-5,025,455			US-PATENT-5,020,739		N91-27504*	c 34	INT-PATENT-CLASS-F16K-3/32	
N91-25380*	c 34	INT-PATENT-CLASS-B64G-1/28	N91-27156*	c 05	INT-PATENT-CLASS-B64C-7/00				INT-PATENT-CLASS-F16K-31/06	
		NASA-CASE-NPO-17204-1-CU			INT-PATENT-CLASS-B64D-1/02				NASA-CASE-MSC-21549-1	
		US-PATENT-APPL-SN-473242			NASA-CASE-LAR-13875-1				US-PATENT-APPL-SN-507553	
		US-PATENT-CLASS-114-122			US-PATENT-APPL-SN-250468				US-PATENT-CLASS-251-129.15	
		US-PATENT-CLASS-114-125			US-PATENT-CLASS-244-118.1				US-PATENT-CLASS-251-148	
		US-PATENT-CLASS-244-164			US-PATENT-CLASS-244-130				US-PATENT-CLASS-251-205	
		US-PATENT-CLASS-244-165			US-PATENT-CLASS-244-137.4				US-PATENT-CLASS-251-326	
		US-PATENT-5,026,008			US-PATENT-5,018,688				US-PATENT-CLASS-251-363	
N91-25388*	c 35	NAS 1.71:MFS-28563-1	N91-27175*	c 14	INT-PATENT-CLASS-F27B-5/14				US-PATENT-5,020,774	
		NASA-CASE-MFS-28563-1			INT-PATENT-CLASS-F27D-11/10		N91-27522*	c 35	INT-PATENT-CLASS-H04R-25/00	
		US-PATENT-APPL-SN-710193			INT-PATENT-CLASS-G01N-3/08				NASA-CASE-GSC-13027-1-CU	
N91-25693*	c 62	INT-PATENT-CLASS-G06F-12/00			NASA-CASE-LEW-14848-1				US-PATENT-APPL-SN-363807	
		NASA-CASE-NPO-17197-1-CU			US-PATENT-APPL-SN-382985				US-PATENT-CLASS-381-26	
		US-PATENT-APPL-SN-292124			US-PATENT-CLASS-219-390				US-PATENT-CLASS-381-68.1	
		US-PATENT-CLASS-364-200			US-PATENT-CLASS-374-49				US-PATENT-CLASS-381-92	
		US-PATENT-CLASS-364-281			US-PATENT-CLASS-374-50				US-PATENT-5,029,216	
		US-PATENT-CLASS-364-281.3			US-PATENT-CLASS-373-826		N91-27560*	c 37	INT-PATENT-CLASS-B64D-33/04	
		US-PATENT-CLASS-364-281.6			US-PATENT-5,015,825				INT-PATENT-CLASS-F16J-15/46	
		US-PATENT-CLASS-364-281.8			US-PATENT-5,016,418				NASA-CASE-LEW-14672-1	
		US-PATENT-5,031,089	N91-27199*	c 18	INT-PATENT-CLASS-E04H-12/18				US-PATENT-APPL-SN-441672	
N91-25840*	c 74	NASA-CASE-MSC-21509-1			NASA-CASE-LAR-13490-1				US-PATENT-CLASS-239-265.11	
		US-PATENT-APPL-SN-560924			US-PATENT-APPL-SN-899683				US-PATENT-CLASS-277-157	
		US-PATENT-CLASS-350-162.13			US-PATENT-CLASS-403-72				US-PATENT-CLASS-277-226	
		US-PATENT-CLASS-350-3.68			US-PATENT-CLASS-52-646				US-PATENT-CLASS-277-229	
		US-PATENT-CLASS-382-31			US-PATENT-5,016,418				US-PATENT-CLASS-277-34	
		US-PATENT-CLASS-382-32	N91-27200*	c 18	INT-PATENT-CLASS-G02B-5/122				US-PATENT-5,014,917	
		US-PATENT-CLASS-382-43			NASA-CASE-MFS-28419-1				INT-PATENT-CLASS-B60P-7/15	
		US-PATENT-CLASS-382-49			US-PATENT-APPL-SN-431538		N91-27561*	c 37	INT-PATENT-CLASS-E05C-5/04	
		US-PATENT-CLASS-382-6			US-PATENT-CLASS-350-102				NASA-CASE-LEW-14887-1	
		US-PATENT-5,029,220			US-PATENT-CLASS-350-107				US-PATENT-APPL-SN-503418	
N91-25841*	c 74	INT-PATENT-CLASS-H01L-29/02			US-PATENT-5,020,876				US-PATENT-CLASS-292-60	
		INT-PATENT-CLASS-H01L-29/161	N91-27201*	c 18	INT-PATENT-CLASS-B64G-1/42				US-PATENT-CLASS-292-61	
		NASA-CASE-NPO-18101-1-CU			NASA-CASE-GSC-13197-1				US-PATENT-CLASS-410-80	
		US-PATENT-APPL-SN-596133			US-PATENT-APPL-SN-344872				US-PATENT-CLASS-410-84	
		US-PATENT-CLASS-357-16			US-PATENT-CLASS-244-159				US-PATENT-5,032,045	
		US-PATENT-CLASS-357-17			US-PATENT-5,020,743		N91-27562*	c 37	NASA-CASE-LAR-14489-1	
		US-PATENT-CLASS-357-30			INT-PATENT-CLASS-C08G-14/00				US-PATENT-APPL-SN-543926	
		US-PATENT-CLASS-357-34			INT-PATENT-CLASS-C08G-8/02				US-PATENT-CLASS-264-184	
		US-PATENT-CLASS-357-46			NASA-CASE-LAR-13992-1-CU				US-PATENT-CLASS-264-211.15	
		US-PATENT-5,027,182			US-PATENT-APPL-SN-248009				US-PATENT-CLASS-264-211.16	
N91-25875*	c 75	INT-PATENT-CLASS-B23K-9/00			US-PATENT-CLASS-528-125				US-PATENT-CLASS-264-211.17	
		NASA-CASE-LEW-14901-1			US-PATENT-CLASS-528-126				US-PATENT-CLASS-264-234	
		US-PATENT-APPL-SN-376488			US-PATENT-CLASS-528-128				US-PATENT-CLASS-264-236	
		US-PATENT-CLASS-219-121.47			US-PATENT-CLASS-528-219				US-PATENT-CLASS-264-345	
		US-PATENT-CLASS-219-121.48			US-PATENT-CLASS-528-220				US-PATENT-5,023,034	
		US-PATENT-CLASS-219-121.52			US-PATENT-4,902,769		N91-27614*	c 44	INT-PATENT-CLASS-H01L-31/18	
		US-PATENT-CLASS-219-75			NASA-CASE-LEW-14902-1				INT-PATENT-CLASS-H01L-31/42	
		US-PATENT-CLASS-219-76.16			US-PATENT-APPL-SN-571058				NASA-CASE-LEW-14959-1	
		US-PATENT-CLASS-427-34			US-PATENT-CLASS-419-14				US-PATENT-APPL-SN-495969	
		US-PATENT-4,990,739			US-PATENT-CLASS-419-30				US-PATENT-CLASS-136-244	
N91-26200*	c 20	NAS 1.71:14846-2			US-PATENT-CLASS-419-32				US-PATENT-CLASS-136-249	
		NASA-CASE-LEW-14846-2			US-PATENT-CLASS-419-36				US-PATENT-CLASS-136-256	
		US-PATENT-APPL-SN-709907			US-PATENT-CLASS-419-38				US-PATENT-CLASS-357-30	
N91-26438*	c 33	INT-PATENT-CLASS-H03D-1/04			US-PATENT-CLASS-419-39				US-PATENT-CLASS-437-2	
		NASA-CASE-GSC-13179-1			US-PATENT-CLASS-419-49				US-PATENT-5,019,176	
		US-PATENT-APPL-SN-414815			US-PATENT-5,034,187		N91-27913*	c 71	NASA-CASE-LAR-13968-1	
		US-PATENT-CLASS-307-353			NASA-CASE-NPO-17633-1-CU				US-PATENT-APPL-SN-392165	
		US-PATENT-CLASS-329-349	N91-27372*	c 27	US-PATENT-APPL-SN-418611				US-PATENT-CLASS-181-206	
		US-PATENT-CLASS-329-361			US-PATENT-CLASS-528-220				US-PATENT-CLASS-181-286	
		US-PATENT-5,015,963			US-PATENT-CLASS-528-222				US-PATENT-CLASS-181-290	
N91-26459*	c 33	NAS 1.71:MFS-28458-1			US-PATENT-CLASS-528-225				US-PATENT-CLASS-181-295	
		NASA-CASE-MFS-28458-1			US-PATENT-CLASS-528-227				US-PATENT-CLASS-381-71	

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N92-16808*	c 74	...	US-PATENT-5,067,019	US-PATENT-CLASS-136-246	US-PATENT-CLASS-307-201
			INT-PATENT-CLASS-G02B-1/01	US-PATENT-CLASS-165-1	US-PATENT-CLASS-364-807
N92-16809*	c 74	...	INT-PATENT-CLASS-G02B-1/12	US-PATENT-CLASS-165-41	US-PATENT-CLASS-395-24
			INT-PATENT-CLASS-G02B-5/23	US-PATENT-CLASS-165-48-2	US-PATENT-5,101,361
N92-16810*	c 74	...	NASA-CASE-NPO-17612-1-CU	US-PATENT-CLASS-165-86	INT-PATENT-CLASS-G01B-9/02
			US-PATENT-APPL-SN-480385	US-PATENT-CLASS-165-904	NASA-CASE-NPO-17913-1-CU
N92-16811*	c 74	...	US-PATENT-CLASS-359-11	US-PATENT-5,086,828	US-PATENT-APPL-SN-527509
			US-PATENT-CLASS-359-240	INT-PATENT-CLASS-G01F-9/00	US-PATENT-CLASS-356-351
N92-17677* #	c 37	.....	US-PATENT-CLASS-359-241	NASA-CASE-LAR-13508-1	US-PATENT-CLASS-356-360
			US-PATENT-5,062,693	US-PATENT-APPL-SN-146939	US-PATENT-CLASS-356-363
N92-17683* #	c 74	.....	INT-PATENT-CLASS-H04N-13/00	US-PATENT-CLASS-374-124	US-PATENT-5,080,490
			NASA-CASE-NPO-18028-1-CU	US-PATENT-CLASS-374-135	NASA-CASE-NPO-17724-1-CU
N92-17670* #	c 24	.....	US-PATENT-APPL-SN-608452	US-PATENT-CLASS-73-147	US-PATENT-APPL-SN-488578
			US-PATENT-CLASS-358-88	US-PATENT-CLASS-73-204.11	US-PATENT-CLASS-148-DIG.22
N92-17909* #	c 34	.....	US-PATENT-CLASS-358-91	US-PATENT-5,085,073	US-PATENT-CLASS-437-105
			US-PATENT-CLASS-358-92	INT-PATENT-CLASS-C08J-5/08	US-PATENT-CLASS-437-107
N92-18561* #	c 24	.....	US-PATENT-5,065,236	INT-PATENT-CLASS-C08K-3/04	US-PATENT-CLASS-437-133
			INT-PATENT-CLASS-G02B-23/00	INT-PATENT-CLASS-C08L-79/08	US-PATENT-CLASS-437-85
N92-21499* #	c 76	.....	INT-PATENT-CLASS-G02B-3/00	NASA-CASE-LAR-13925-1	US-PATENT-CLASS-437-936
			NASA-CASE-ARC-11892-1-SB	US-PATENT-APPL-SN-301925	US-PATENT-CLASS-437-945
N92-21500* #	c 37	.....	US-PATENT-APPL-SN-472939	US-PATENT-CLASS-524-495	US-PATENT-CLASS-5094,974
			US-PATENT-CLASS-359-362	US-PATENT-CLASS-525-422	INT-PATENT-CLASS-G06F-15/00
N92-21586* #	c 35	..	US-PATENT-CLASS-359-572	US-PATENT-CLASS-525-432	NASA-CASE-NPO-17800-1-CU
			US-PATENT-CLASS-359-744	US-PATENT-CLASS-525-903	US-PATENT-APPL-SN-522949
N92-21587* #	c 05	.	US-PATENT-5,040,886	US-PATENT-5,088,961	US-PATENT-CLASS-395-86
			INT-PATENT-CLASS-G02B-27/64	INT-PATENT-CLASS-H03D-1/06	US-PATENT-CLASS-395-95
N92-21588* #	c 02	...	INT-PATENT-CLASS-G02B-7/02	NASA-CASE-NPO-17628-1-CU	US-PATENT-CLASS-901-6
			NASA-CASE-ARC-11916-1-SB	US-PATENT-APPL-SN-350813	US-PATENT-5,086,400
N92-21589* #	c 54	.....	US-PATENT-APPL-SN-531373	US-PATENT-CLASS-329-310	INT-PATENT-CLASS-H01C-31/58
			US-PATENT-CLASS-359-557	US-PATENT-CLASS-375-80	NASA-CASE-LEW-14731-1
N92-21590* #	c 34	.....	US-PATENT-CLASS-359-813	US-PATENT-CLASS-375-94	US-PATENT-APPL-SN-503486
			US-PATENT-CLASS-359-819	US-PATENT-4,947,408	US-PATENT-CLASS-136-253
N92-21591* #	c 34	.....	US-PATENT-5,077,622	INT-PATENT-CLASS-B23B-39/00	US-PATENT-5,080,724
			NAS 1.71:LAR-14169-1	NASA-CASE-LEW-14880-1	INT-PATENT-CLASS-B23H-9/00
N92-21592* #	c 34	.....	NASA-CASE-LAR-14169-1	US-PATENT-APPL-SN-376738	NASA-CASE-LEW-14967-2
			US-PATENT-APPL-SN-791728	US-PATENT-CLASS-408-14	US-PATENT-APPL-SN-531433
N92-21593* #	c 34	.....	NAS 1.71:MSC-21806-1	US-PATENT-CLASS-408-16	US-PATENT-APPL-SN-685062
			NASA-CASE-MS-21806-1	US-PATENT-CLASS-408-2415	US-PATENT-CLASS-219-69.17
N92-21594* #	c 34	.....	US-PATENT-APPL-SN-780513	US-PATENT-5,096,340	US-PATENT-CLASS-374-29
			NAS 1.71:MFS-28431-1	INT-PATENT-CLASS-B05B-1/02	US-PATENT-CLASS-40-703
N92-21595* #	c 34	.....	NASA-CASE-MFS-28431-1	INT-PATENT-CLASS-B05B-1/14	US-PATENT-5,086,204
			US-PATENT-APPL-SN-812084	NASA-CASE-NPO-17625-1-CU	INT-PATENT-CLASS-G01B-5/02
N92-21596* #	c 34	.....	NAS 1.71:LAR-14547-1	US-PATENT-APPL-SN-531434	NASA-CASE-MS-21700-1
			NASA-CASE-LAR-14547-1	US-PATENT-CLASS-239-533.13	US-PATENT-APPL-SN-640775
N92-21597* #	c 24	.....	US-PATENT-APPL-SN-748224	US-PATENT-CLASS-239-543	US-PATENT-CLASS-33-10
			NASA-CASE-NPO-17736-2-CU	US-PATENT-CLASS-239-546	US-PATENT-CLASS-33-15D
N92-21598* #	c 24	.....	US-PATENT-APPL-SN-392166	US-PATENT-CLASS-239-552	US-PATENT-CLASS-33-520
			US-PATENT-APPL-SN-677373	US-PATENT-CLASS-239-602	US-PATENT-CLASS-33-644
N92-21599* #	c 24	.....	US-PATENT-CLASS-437-200	US-PATENT-5,080,286	US-PATENT-5,083,378
			US-PATENT-CLASS-437-40	NASA-CASE-LEW-14999-1	NASA-CASE-NPO-17812-2-CU
N92-21600* #	c 24	.....	US-PATENT-CLASS-437-907	US-PATENT-APPL-SN-560926	US-PATENT-APPL-SN-387928
			US-PATENT-CLASS-437-935	US-PATENT-CLASS-428-212	US-PATENT-APPL-SN-642765
N92-21601* #	c 24	.....	US-PATENT-CLASS-437-942	US-PATENT-CLASS-428-213	US-PATENT-CLASS-156-643
			US-PATENT-CLASS-437-973	US-PATENT-CLASS-428-426	US-PATENT-CLASS-357-5
N92-21602* #	c 24	.....	US-PATENT-5,075,243	US-PATENT-CLASS-428-432	US-PATENT-CLASS-427-419.1
			NASA-CASE-NPO-17074-2-CU	US-PATENT-CLASS-428-433	US-PATENT-CLASS-427-419.2
N92-21603* #	c 24	.....	US-PATENT-APPL-SN-102934	US-PATENT-CLASS-428-469	US-PATENT-CLASS-427-62
			US-PATENT-APPL-SN-311376	US-PATENT-CLASS-428-472.2	US-PATENT-CLASS-427-63
N92-21604* #	c 24	.....	US-PATENT-CLASS-156-DIG.64	US-PATENT-5,080,977	US-PATENT-5,100,694
			US-PATENT-CLASS-156-608	INT-PATENT-CLASS-F16B-19/00	INT-PATENT-CLASS-H01L-27/12
N92-21605* #	c 24	.....	US-PATENT-CLASS-156-617.1	INT-PATENT-CLASS-F16B-35/02	INT-PATENT-CLASS-H01L-39/22
			US-PATENT-CLASS-156-620.1	NASA-CASE-MS-21580-1	NASA-CASE-NPO-17812-3-CU
N92-21606* #	c 24	.....	US-PATENT-CLASS-156-620.3	US-PATENT-APPL-SN-648772	US-PATENT-APPL-SN-387928
			US-PATENT-CLASS-156-620.4	US-PATENT-CLASS-411-354	US-PATENT-APPL-SN-641798
N92-21607* #	c 24	.....	US-PATENT-5,092,956	US-PATENT-CLASS-411-385	US-PATENT-CLASS-357-4
			INT-PATENT-CLASS-E05C-5/02	US-PATENT-CLASS-411-65	US-PATENT-CLASS-357-5
N92-21608* #	c 24	.....	NASA-CASE-GSC-13200-1	US-PATENT-CLASS-411-901	US-PATENT-CLASS-505-862
			US-PATENT-APPL-SN-654454	US-PATENT-CLASS-411-908	US-PATENT-CLASS-505-871
N92-21609* #	c 24	.....	US-PATENT-CLASS-292-DIG.39	US-PATENT-5,090,857	US-PATENT-5,099,294
			US-PATENT-CLASS-292-110	NASA-CASE-MS-21748-1	INT-PATENT-CLASS-H02N-1/08
N92-21610* #	c 24	.....	US-PATENT-5,087,088	US-PATENT-APPL-SN-657598	NASA-CASE-NPO-17684-1-CU
			INT-PATENT-CLASS-G01L-19/04	US-PATENT-CLASS-277-3	US-PATENT-APPL-SN-443522
N92-21611* #	c 24	.....	NASA-CASE-LAR-14340-1-CU	US-PATENT-CLASS-277-34	US-PATENT-CLASS-310-308
			US-PATENT-APPL-SN-575695	US-PATENT-CLASS-277-34.3	US-PATENT-CLASS-310-309
N92-21612* #	c 24	.....	US-PATENT-CLASS-73-147	US-PATENT-CLASS-285-223	US-PATENT-5,084,645
			US-PATENT-CLASS-73-182	US-PATENT-CLASS-285-346	INT-PATENT-CLASS-F16J-15/46
N92-21613* #	c 24	.....	US-PATENT-CLASS-73-708	US-PATENT-CLASS-285-910	NASA-CASE-LEW-15085-1
			US-PATENT-5,076,103	US-PATENT-CLASS-285-97	US-PATENT-APPL-SN-610879
N92-21614* #	c 05	.	INT-PATENT-CLASS-B64C-21/10	US-PATENT-5,102,150	US-PATENT-CLASS-239-265.11
			NASA-CASE-LAR-13870-1-CU	INT-PATENT-CLASS-B60T-13/04	US-PATENT-CLASS-277-229
N92-21615* #	c 05	.	US-PATENT-APPL-SN-429516	NASA-CASE-GSC-13376-1	US-PATENT-CLASS-277-234
			US-PATENT-CLASS-244-198	US-PATENT-APPL-SN-677008	US-PATENT-CLASS-277-3
N92-21616* #	c 05	.	US-PATENT-CLASS-244-200	US-PATENT-CLASS-188-171	US-PATENT-CLASS-277-34
			US-PATENT-CLASS-244-212	US-PATENT-CLASS-188-82.84	US-PATENT-CLASS-277-76
N92-21617* #	c 05	.	US-PATENT-CLASS-244-215	US-PATENT-CLASS-188-82.9	US-PATENT-5,082,293
			US-PATENT-5,088,665	US-PATENT-5,103,941	NASA-CASE-LAR-14346-1
N92-21618* #	c 02	...	INT-PATENT-CLASS-G01M-9/00	INT-PATENT-CLASS-B64G-1/62	US-PATENT-APPL-SN-250480
			NASA-CASE-LAR-13742-1	NASA-CASE-MS-21536-1	US-PATENT-APPL-SN-434195
N92-21619* #	c 02	...	US-PATENT-APPL-SN-621144	US-PATENT-APPL-SN-458476	US-PATENT-CLASS-525-275
			US-PATENT-CLASS-116-201	US-PATENT-CLASS-244-160	US-PATENT-CLASS-525-421
N92-21620* #	c 02	...	US-PATENT-CLASS-116-207	US-PATENT-CLASS-244-162	US-PATENT-CLASS-525-422
			US-PATENT-CLASS-73-147	US-PATENT-CLASS-244-163	US-PATENT-CLASS-526-248
N92-21621* #	c 02	...	US-PATENT-5,070,729	US-PATENT-5,064,151	US-PATENT-CLASS-526-249
			NASA-CASE-MS-21868-1	INT-PATENT-CLASS-G06G-7/12	US-PATENT-CLASS-526-262
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NASA-CASE-LEW-15264-2
US-PATENT-APPL-SN-084058
US-PATENT-APPL-SN-872262
US-PATENT-CLASS-264-58
US-PATENT-CLASS-501-32
US-PATENT-CLASS-501-8
US-PATENT-CLASS-501-95
US-PATENT-5,281,559
- N94-29509* c 24 NASA-CASE-ARC-11955-1-CU
US-PATENT-APPL-SN-410576
US-PATENT-APPL-SN-700368
US-PATENT-APPL-SN-739026
US-PATENT-CLASS-112-415
US-PATENT-CLASS-112-420
US-PATENT-CLASS-112-440
US-PATENT-CLASS-139-420A
US-PATENT-CLASS-428-116
US-PATENT-5,277,959
- N94-29538* c 35 ... INT-PATENT-CLASS-G01D-7/02
NASA-CASE-GSC-13468-1
US-PATENT-APPL-SN-885697
US-PATENT-CLASS-73-761
US-PATENT-CLASS-73-789
US-PATENT-5,287,747
- N94-29539* c 34 .. INT-PATENT-CLASS-F04D-29/68
NASA-CASE-LEW-15463-1
US-PATENT-APPL-SN-000163
US-PATENT-CLASS-415-115
US-PATENT-CLASS-415-206
US-PATENT-CLASS-415-914
US-PATENT-5,286,162
- N94-29548* c 38 . INT-PATENT-CLASS-G01N-29/10
INT-PATENT-CLASS-G01N-29/28
NASA-CASE-LAR-14626-1
US-PATENT-APPL-SN-751489
US-PATENT-CLASS-73-588
US-PATENT-CLASS-73-644
US-PATENT-5,280,722
- N94-29554* c 23 NASA-CASE-LAR-15082-1
US-PATENT-APPL-SN-077132
US-PATENT-APPL-SN-755207
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-170
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-173
US-PATENT-CLASS-528-353
US-PATENT-5,302,692
- N94-29555* c 27 NASA-CASE-LAR-14638-1
US-PATENT-APPL-SN-970755
US-PATENT-CLASS-528-22
US-PATENT-CLASS-528-26
US-PATENT-CLASS-528-28
US-PATENT-CLASS-528-32
US-PATENT-CLASS-528-33
US-PATENT-CLASS-528-34
US-PATENT-CLASS-528-353
US-PATENT-5,304,627
- N94-29556* c 37 . INT-PATENT-CLASS-G05G-11/00
NASA-CASE-GSC-13485-2
US-PATENT-APPL-SN-110181
US-PATENT-APPL-SN-915567
US-PATENT-CLASS-74-469
US-PATENT-CLASS-74-479B
US-PATENT-CLASS-74-479PP
US-PATENT-CLASS-901-14
US-PATENT-CLASS-901-19
US-PATENT-5,301,566
- N94-29557* c 37 .. INT-PATENT-CLASS-B23K-31/02
NASA-CASE-LEW-15671-1
US-PATENT-APPL-SN-063222
US-PATENT-CLASS-148-512
- US-PATENT-CLASS-228-203
US-PATENT-CLASS-228-211
US-PATENT-CLASS-228-232
US-PATENT-CLASS-428-610
US-PATENT-5,284,290
- N94-29589* # c 32 NAS 1.71:LEW-15310-1
NASA-CASE-LEW-15310-1
US-PATENT-APPL-SN-167107
- N94-29726* c 35 .. INT-PATENT-CLASS-B25J-11/00
INT-PATENT-CLASS-G05G-11/00
NASA-CASE-GSC-13485-1
US-PATENT-APPL-SN-915567
US-PATENT-CLASS-74-479B
US-PATENT-CLASS-74-479PF
US-PATENT-CLASS-901-14
US-PATENT-CLASS-901-19
US-PATENT-5,279,176
- N94-29739* c 32 . INT-PATENT-CLASS-G01S-13/58
NASA-CASE-GSC-13542-1
US-PATENT-APPL-SN-028091
US-PATENT-CLASS-342-112
US-PATENT-CLASS-342-116
US-PATENT-5,276,453
- N94-29740* c 34 INT-PATENT-CLASS-F02C-3/02
NASA-CASE-LEW-15218-2
US-PATENT-APPL-SN-086581
US-PATENT-APPL-SN-889003
US-PATENT-CLASS-60-39.02
US-PATENT-5,297,384
- N94-29756* c 63 . INT-PATENT-CLASS-G06F-15/18
INT-PATENT-CLASS-G06G-7/19
NASA-CASE-NPO-17803-1-CU
US-PATENT-APPL-SN-071206
US-PATENT-APPL-SN-473024
US-PATENT-APPL-SN-905061
US-PATENT-CLASS-395-23
US-PATENT-CLASS-395-24
US-PATENT-5,299,285
- N94-30173* # c 37 NAS 1.71:MFS-28857-1
NASA-CASE-MFS-28857-1
US-PATENT-APPL-SN-172961
- N94-35074* c 34 INT-PATENT-CLASS-G01F-1/68
INT-PATENT-CLASS-G01M-9/11
NASA-CASE-LAR-14612-1
US-PATENT-APPL-SN-820431
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-204.18
US-PATENT-5,311,772
- N94-35075* c 24 NASA-CASE-LAR-14954-1
US-PATENT-APPL-SN-924689
US-PATENT-CLASS-156-228
US-PATENT-CLASS-156-307.1
US-PATENT-CLASS-156-312
US-PATENT-CLASS-156-315
US-PATENT-CLASS-156-87
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-331.12
US-PATENT-5,312,579
- N94-35076* c 24 NASA-CASE-LEW-14162-4
US-PATENT-APPL-SN-017402
US-PATENT-APPL-SN-501893
US-PATENT-APPL-SN-657238
US-PATENT-APPL-SN-880951
US-PATENT-CLASS-165-185
US-PATENT-CLASS-257-720
US-PATENT-CLASS-361-704
US-PATENT-CLASS-361-707
US-PATENT-5,316,080
- N94-35077* c 25 INT-PATENT-CLASS-C07C-205/06
NASA-CASE-LAR-14796-1
US-PATENT-APPL-SN-045343
US-PATENT-CLASS-568-30
US-PATENT-CLASS-568-306
US-PATENT-CLASS-568-332
US-PATENT-CLASS-568-34
US-PATENT-CLASS-568-928
US-PATENT-CLASS-570-128
US-PATENT-5,312,994
- N94-35078* c 35 . INT-PATENT-CLASS-G01K-17/00
NASA-CASE-LEW-15643-1
US-PATENT-APPL-SN-047120
US-PATENT-CLASS-374-166
US-PATENT-CLASS-374-29
US-PATENT-5,314,247
- N94-35114* c 35 INT-PATENT-CLASS-G01J-5/08
NASA-CASE-NPO-18655-1-CU
US-PATENT-APPL-SN-044449
US-PATENT-CLASS-250-338.1
US-PATENT-CLASS-250-340
US-PATENT-CLASS-356-43
US-PATENT-CLASS-374-121
US-PATENT-CLASS-374-130
US-PATENT-5,316,385
- N94-35115* c 54 INT-PATENT-CLASS-A61F-2/54
INT-PATENT-CLASS-A61F-2/58
INT-PATENT-CLASS-A61F-2/66

				NASA-CASE-MFS-28707-1	US-PATENT-APPL-SN-117511	US-PATENT-CLASS-323-299
				US-PATENT-APPL-SN-912953	US-PATENT-CLASS-367-13	US-PATENT-CLASS-323-906
				US-PATENT-CLASS-623-57	US-PATENT-5,325,339	US-PATENT-5,327,071
				US-PATENT-CLASS-623-59	INT-PATENT-CLASS-G01L-7/08	INT-PATENT-CLASS-F16K-15/02
				US-PATENT-CLASS-623-60	INT-PATENT-CLASS-G01M-9/00	NASA-CASE-MSC-22046-1
				US-PATENT-5,314,500	NASA-CASE-LAR-14029-1	US-PATENT-APPL-SN-038748
N94-35229*	c 25			NASA-CASE-MSC-21487-3	US-PATENT-APPL-SN-138046	US-PATENT-CLASS-137-516-29
				US-PATENT-APPL-SN-429739	US-PATENT-CLASS-29-454	US-PATENT-CLASS-137-528
				US-PATENT-APPL-SN-894505	US-PATENT-CLASS-73-147	US-PATENT-CLASS-251-65
				US-PATENT-APPL-SN-995612	US-PATENT-CLASS-73-715	US-PATENT-5,320,136
				US-PATENT-CLASS-502-258	US-PATENT-CLASS-73-756	INT-PATENT-CLASS-G01B-11/00
				US-PATENT-CLASS-502-259	US-PATENT-CLASS-92-103M	INT-PATENT-CLASS-G01B-9/02
				US-PATENT-CLASS-502-260	US-PATENT-5,325,720	NASA-CASE-NPO-18478-1-CU
				US-PATENT-CLASS-502-332	INT-PATENT-CLASS-C08L-79/08	US-PATENT-APPL-SN-883957
				US-PATENT-CLASS-502-335	NASA-CASE-LAR-14239-2	US-PATENT-CLASS-356-345
				US-PATENT-5,314,857	US-PATENT-APPL-SN-429514	US-PATENT-CLASS-356-354
N94-35230*	c 44			INT-PATENT-CLASS-H01L-31/06	US-PATENT-APPL-SN-968082	US-PATENT-CLASS-356-359
				NASA-CASE-LEW-15606-1	US-PATENT-CLASS-525-421	US-PATENT-CLASS-356-360
				US-PATENT-APPL-SN-955512	US-PATENT-CLASS-525-426	US-PATENT-5,327,219
				US-PATENT-CLASS-136-252	US-PATENT-CLASS-525-432	NASA-CASE-LEW-15697-1
				US-PATENT-CLASS-136-256	US-PATENT-CLASS-525-436	US-PATENT-APPL-SN-067184
				US-PATENT-CLASS-257-434	US-PATENT-CLASS-525-903	US-PATENT-CLASS-148-423
				US-PATENT-CLASS-257-631	US-PATENT-5,331,063	US-PATENT-CLASS-148-442
				US-PATENT-CLASS-257-76	INT-PATENT-CLASS-F16J-15/16	US-PATENT-CLASS-420-428
				US-PATENT-CLASS-437-5	NASA-CASE-LEW-15570-1	US-PATENT-CLASS-420-429
				US-PATENT-5,322,573	US-PATENT-APPL-SN-007874	US-PATENT-CLASS-420-578
N94-35231*	c 32			INT-PATENT-CLASS-H01Q-1/24	US-PATENT-CLASS-277-230	US-PATENT-CLASS-420-588
				NASA-CASE-GSC-13309-1	US-PATENT-CLASS-277-75	US-PATENT-CLASS-75-230
				US-PATENT-APPL-SN-571060	US-PATENT-5,332,239	US-PATENT-5,330,590
				US-PATENT-CLASS-343-701	INT-PATENT-CLASS-F16D-1/00	N94-36751* # c 51
				US-PATENT-CLASS-455-291	NASA-CASE-MSC-22028-1	NAS 1.71:MSC-22336-1
				US-PATENT-5,311,198	US-PATENT-APPL-SN-993477	NASA-CASE-MSC-22336-1
N94-35232*	c 51			NASA-CASE-MSC-21560-2	US-PATENT-CLASS-403-325	US-PATENT-APPL-SN-062856
				US-PATENT-APPL-SN-213558	US-PATENT-CLASS-403-327	NAS 1.71:LEW-15818-1
				US-PATENT-APPL-SN-213559	US-PATENT-CLASS-403-328	NASA-CASE-LEW-15818-1
				US-PATENT-APPL-SN-317931	US-PATENT-CLASS-403-359	US-PATENT-APPL-SN-238767
				US-PATENT-APPL-SN-939791	US-PATENT-CLASS-403-378	NAS 1.71:MSC-22368-1
				US-PATENT-CLASS-435-1	US-PATENT-CLASS-403-379	NASA-CASE-MSC-22368-1
				US-PATENT-CLASS-435-240.2	US-PATENT-5,326,186	US-PATENT-APPL-SN-242546
				US-PATENT-CLASS-435-240.24	INT-PATENT-CLASS-H01R-43/00	NAS 1.71:MSC-22463-1
				US-PATENT-CLASS-435-240.25	NASA-CASE-NPO-18786-1-CU	NASA-CASE-MSC-22463-1
				US-PATENT-5,308,764	US-PATENT-APPL-SN-048871	US-PATENT-APPL-SN-247189
N94-35233*	c 27			INT-PATENT-CLASS-C08J-5/08	US-PATENT-CLASS-29-252	NAS 1.71:LAR-14569-1
				NASA-CASE-LAR-14838-1	US-PATENT-CLASS-29-764	NASA-CASE-LAR-14569-1
				US-PATENT-APPL-SN-430470	US-PATENT-CLASS-439-158	US-PATENT-APPL-SN-238044
				US-PATENT-APPL-SN-831763	US-PATENT-5,329,693	NAS 1.71:LAR-14964-1-CU
				US-PATENT-CLASS-428-473.5	INT-PATENT-CLASS-G01J-5/62	NASA-CASE-LAR-14964-1-CU
				US-PATENT-CLASS-525-421	NASA-CASE-LEW-15250-1	US-PATENT-APPL-SN-215793
				US-PATENT-CLASS-525-432	US-PATENT-APPL-SN-991403	NASA-CASE-MFS-28930-1
				US-PATENT-CLASS-525-436	US-PATENT-CLASS-250-338-1	US-PATENT-APPL-SN-246460</

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The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Patents and Other Intellectual Property Rights

AGENCY: National Aeronautics and Space Administration (NASA).

ACTION: Final Rule.

SUMMARY: 14 CFR part 1245, subpart 2, "Licensing of NASA Inventions" provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration and implements Public Law 96-517. The object of subpart 2 is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: December 13, 1990.

ADDRESS: Office of General Counsel, Code GP, NASA Headquarters, Washington, DC 20546.

FOR FURTHER INFORMATION CONTACT:

Harry Lupuloff, (202) 358-2041

SUPPLEMENTARY INFORMATION:

14 CFR part 1245, subpart 2 is amended by revising NASA position titles in §1245.208 (a), (b) and (c). Since this action is internal and administrative in nature and does not affect the existing regulations, notice and public comment are not required.

The National Aeronautics and Space Administration has determined that:

(1) This rule is not subject to the requirements of the Regulatory Flexibility Act, 5 U.S.C. 601-612, since it will not exert a significant impact on a substantial number of small business entities.

(2) This rule is not a major rule as defined in Executive Order 12291.

List of Subjects in 14 CFR Part 1245

Administrative practice and procedure. Authority delegations (Government agencies). Inventions and patents.

For reasons set out in the Preamble, 14 CFR part 1245 is amended as follows:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

(1) The authority citation for 14 CFR part 1245, subpart 2 continues to read as follows:

Authority: 35 U.S.C. Section 207 and 208.94 Stat. 3023 and 3024.

(2) Section 1245.208 is revised to read as follows:

★ ★ ★ ★ ★

Subpart 2—Licensing of NASA Inventions

Sec.

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1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Stat. 3023 and 3024.

★ ★ ★ ★ ★

Subpart 2—Licensing of NASA Inventions

§1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§1245.202 Definitions.

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

PATENT LICENSING REGULATIONS

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to §1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of §1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(i) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the *Federal Register*; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the *Federal Register*, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in §1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of §1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the *Federal Register*, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of §1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

PATENT LICENSING REGULATIONS

Procedures

§1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

- (a) Identification of the invention for which the license is desired, including the patent application, serial number or patent number, title, and date, if known;
- (b) Identification of the type of license for which the application is submitted;
- (c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;
- (d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;
- (e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;
- (f) Source of information concerning the availability of a license on the invention;
- (g) A statement indicating whether applicant is a small business firm as defined in §1245.202(c);
- (h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:
 - (1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;
 - (2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;
 - (3) A statement of the fields of use for which applicant intends to practice the invention; and
 - (4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;
- (i) Identification of licenses previously granted to applicant under Federally owned inventions;
- (j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and
- (k) Any other information which applicant believes will support a determination to grant the license to applicant.

§1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to:

- (1) Grant the license as requested.
- (2) Grant the license with modification after negotiation with the licensee, or
- (3) Deny the license.

The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Associate General Counsel (Intellectual Property). Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Associate General Counsel (Intellectual Property) based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the Federal Register in accordance with §1245.206(a)(1)(iii)(A) or §1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Associate General Counsel (Intellectual Property).

(c) If the requested license, including any negotiated modifications, is denied by the Associate General Counsel (Intellectual Property), the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with §1245.211.

Dated: November 23, 1990

Richard H. Truly,
Administrator.

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§1245.209 Notice to Attorney General.

A copy of the notice provided for in §§1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

- (1) A person whose application for a license has been denied;
- (2) A licensee whose license has been modified or terminated, in whole or in part; or
- (3) A person who timely filed a written objection in response to the notice required by §§1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under §1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to §1245.207(h) and any report required by §1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,
Administrator.

October 15, 1981.

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N78-10001 - N78-22018
N78-22019 - N78-34034
N79-10001 - N79-21993
N79-21994 - N79-34158
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N84-10001 - N84-22526
N84-22527 - N84-35284
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N86-10001 - N86-22536
N86-22537 - N86-33262
N87-10001 - N87-20170
N87-20171 - N87-30248
N88-10001 - N88-20253
N88-20254 - N88-30583
N89-10001 - N89-20085
N89-20086 - N89-30155
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N91-10001 - N91-21058
N91-21059 - N91-33053
N92-10001 - N92-22095
N92-22096 - N92-34247
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